

Gene Screen

The invention relates to a screen for the identification of genes which show regulated expression in response to carbon source utilisation.

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Colorectal cancer is a cancer which occurs in the large intestine and rectum. The colon can be divided into effectively four sections; the ascending colon; the transverse colon; the descending colon; and the sigmoid colon. Most colorectal cancers arise in the sigmoid colon and develop from "polyps" which can grow for several years before becoming cancerous. The early detection of these pre-cancerous growths is obviously desirable since removal of the polyps is a very effective means to stem the progress of disease.

There are various types of colorectal cancer. Most cancers of this type are adenocarcinomas which are malignant growths which begin in the epithelial cells which line the colon and rectum. Other cancers of the colon and rectum include gastrointestinal stromal tumours and lymphomas. In some examples the patient can be asymptomatic and for this reason it is important that screening is undertaken to identify those patients in which pre-cancerous polyps are forming. However, some patients do present with symptoms and these include rectal bleeding, diarrhoea, constipation, abdominal pain, and general weakness.

As mentioned above, regular screening is by far the most effective way of controlling this disease since removal of pre-cancerous polyps by surgery can effectively cure any disease before it is initiated. Currently, diagnostic tests include the use of colonoscopy, which allows a doctor to examine the rectum and colon; faecal blood analysis to check for any bleeding from the bowel and rectal area although this test is not directly diagnostic for cancerous lesion in its own right; and sigmoidoscopy which is similar to colonoscopy but only investigates the lower bowel area. Typically, patients with a family history of colorectal cancer can be expected to have

a colonoscopy every 5 years or so and a blood stool check on a yearly basis from about the age of 40.

5 The treatment of colorectal cancer usually involves invasive surgery to remove polyps and/or malignant growths. If the cancer has developed beyond the polyp stage then more extensive surgery is required which can result in removal of part of the bowel and surrounding lymph nodes. In the situation where a cancer necessitates extensive surgery a colostomy stoma may be required, at least for a period, to allow the bowel to recover from surgery. Surgery in the rectal region is more complicated  
10 and is largely dependent on how far the disease has progressed. In some cases the surgery can damage nerves which control sexual and urinary functions. In advanced stage colorectal cancers metastatic lesions may require removal and in about 15% of cases the lesions are in the liver which requires removal of large parts of the liver. The surgical removal of polyps and/or cancerous growths leads to a good prognosis  
15 for patients. In some cases surgery is followed by a course of chemotherapy (for colon cancer) and chemotherapy and radiation therapy (rectal cancer) to remove any cancer cells not detected during surgery. The chemotherapeutic agents typically used to treat colorectal cancer include 5-fluorouracil, leucovorin, irinotecan and capecitabine.

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It is apparent that the early detection of cells which are pre-cancerous is highly desirable since in most cases surgery to remove these cells results in a very good prognosis for patients. Diagnostic tests which use the detection of cancer markers as an early indicator of cancer are known in the art.

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For example, EP1355149 describes gene expression profiles from colorectal samples to provide a "finger print" expression profile as an indication of whether a patient is susceptible to the development of colorectal cancer or indeed if malignant growth has already been initiated. The disclosure in EP1355149 is directed to the use of  
30 microarrays to compare transformed and non-transformed tissue gene expression in a global sense.

WO02/059609 also describes a gene screen which utilises expression profiles in breast and colorectal cancer. A comparison is made between "normal" and "abnormal" samples in patients to provide a global picture of gene expression in these samples as an indicator of particular genes which are either over-expressed or abrogated between samples. Both EP1355149 and WO02/059609 take a shot gun approach to screening for target genes which can be used either as a diagnostic tool or as a target for the development of new chemotherapeutic agents.

10 The present invention provides a targeted screen for genes the expression of which may be altered in a response to carbon source. The invention makes use of the differences in expression profiles between normal and diseased tissue as a consequence of differences in metabolic state between cancer cells and normal cells due in part to carbon source utilisation by these respective cell types. The epithelial cells which line the colon and rectum metabolise butyrate as a carbon source for energy transduction via glycolysis. The main carbon source utilised by tumour cells is glucose. Consequently, expression profiles between these cell types are different due to the differences in carbon source metabolism.

20 We have identified a large number of potential markers of colorectal cancer which have utility with respect to the early diagnosis of disease and as targets for the development of novel chemotherapeutic agents. Moreover, this assay has broader applicability to conditions resulting from dysfunction of the bowel (e.g colitis, ulcerative colitis, diversion colitis, Crohn's disease and irritable bowel syndrome. In addition the assay provides a screening tool for fibre consumption and as an assay for colon microflora functionality (the effectiveness of fermentation of specific fibres).

According to an aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated first cell sample comprising comparing the gene expression profiles between said first cell sample with a second reference cell sample wherein said first cell sample has been grown in

the presence of the carbon source butyrate, or a related carbon source from which butyrate is derived, either directly or indirectly, and comparing said expression profile with the expression profile in said second reference cell sample which has not been grown in the presence of butyrate, or said related carbon source.

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According to a further aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated biological sample comprising the steps of:

- i) providing
  - 10 a) a cell growth preparation comprising a first cell sample derived from at least one region of the colon; cell growth media; and a carbon source wherein said carbon source is butyrate; and
  - b) a cell growth preparation comprising a second cell sample derived from an equivalent region of the colon; cell growth media; and a
  - 15 carbon source which is not butyrate;
- ii) extracting nucleic acid from said first and second cell samples; and
- iii) comparing the gene expression profile in said first cell sample with the gene expression profile in said second cell sample.

20 In a preferred method of the invention said first and second cell samples are derived from the ascending colon.

In an alternative preferred method of the invention said first and second cell samples are derived from the transverse colon.

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In a further preferred method of the invention said first and second samples are derived from the descending colon.

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In a still further preferred method of the invention said first and second samples are derived from the sigmoid region of the colon. Preferably said cell samples are derived from the rectal region of the colon.



In a further preferred method of the invention said first and second cell samples comprise epithelial cells.

5 In a preferred method of the invention said carbon source which is not butyrate is glucose.

10 In a still further preferred method of the invention said nucleic acid molecule which shows altered expression is selected from the group as represented by the nucleic acid sequences shown in Table 1, or nucleic acid molecules which hybridise to the sequences presented Table 1. Preferably said nucleic acid molecules hybridise under stringent hybridisation conditions.

15 According to a further aspect of the invention there is provided a method for the detection of at least one nucleic acid molecule associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- 20 ii) contacting said sample with a ligand which binds at least one nucleic acid molecule as represented by the nucleic acid sequence selected from the group consisting of:
  - a) a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1;
  - 25 b) a nucleic acid molecule which hybridises to nucleic acid molecules as defined in (a);
  - c) a nucleic acid molecule that is degenerate as a consequence of the genetic code to the nucleic acid molecule represented in (a) and (b);
- 30 iii) detecting the presence of at least one nucleic acid molecule in said sample.

In a preferred method of the invention said animal is human.

In a further preferred method of the invention said colorectal cancer is  
5 adenocarcinoma.

In a preferred method of the invention said ligand is a nucleic acid molecule adapted  
to anneal to said nucleic acid molecule which is indicative of colorectal cancer.

10 It will be apparent to the skilled person that a number of nucleic acid based assay  
systems are available which can be adapted to detect nucleic acid molecules as  
hereindisclosed. For example quantitative polymerase chain reaction assays, *in situ*  
hybridisation, northern blots.

15 According to a further aspect of the invention there is provided a method for the  
detection of at least one polypeptide associated with the initiation and/or progression  
of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- ii) contacting said sample with at least one ligand which ligand  
20 specifically binds at least one polypeptide encoded by a nucleic acid  
molecule as represented by the nucleic acid sequence shown in Table  
1, or a variant polypeptide comprising an amino acid sequence which  
varies by the addition, deletion or substitution of at least one amino  
acid residue; and
- 25 iii) detecting the presence of at least one polypeptide in said sample.

In a preferred method of the invention said animal is human.

In a further preferred embodiment of the invention said ligand is an antibody,  
30 preferably a monoclonal antibody, or at least the effective binding part thereof.

Methods which utilise antibodies to detect the presence of a polypeptide in a biological sample are well known in the art and include ELISA's, western blot and immunofluoresence.

- 5 According to a further aspect of the invention there is provided the use of at least one polypeptide, or variant sequence thereof, encoded by a nucleic acid molecule(s) as represented by the nucleic acid sequences as shown in Table 1, as a target for the screening of agents which modulate the activity of said polypeptide.
- 10 According to a yet further aspect of the invention there is provided a method to screen for agents which modulate the activity of at least one gene associated with the initiation and/or progression of colorectal cancer comprising the steps of:
- i) forming a preparation comprising at least one polypeptide wherein said polypeptide is encoded by a nucleic acid molecule as represented  
15 by the nucleic acid sequence as shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue as represented by the amino acid sequences shown in Table 1, and at least one agent to be tested; and
  - 20 ii) determining the activity of said agent with respect to activity of said polypeptide.

In a preferred method of the invention said polypeptide is expressed by a cell wherein said cell is transformed or transfected with said nucleic acid molecule. Preferably  
25 said nucleic acid molecule is part of a vector adapted for recombinant expression of said nucleic acid molecule. Preferably said vector is provided with a promoter which enables the expression of said nucleic acid molecule to be regulated.

In a preferred method of the invention said cell is derived from the colon, preferably  
30 said cell is an epithelial cell which lines said colon.

In a further preferred method of the invention said agent is an antibody, preferably a monoclonal antibody or modified antibody, or at least the effective binding part thereof.

- 5 Antibodies, also known as immunoglobulins, are protein molecules which usually have specificity for foreign molecules (antigens). Immunoglobulins (Ig) are a class of structurally related proteins consisting of two pairs of polypeptide chains, one pair of light (L) (low molecular weight) chain ( $\kappa$  or  $\lambda$ ), and one pair of heavy (H) chains ( $\gamma$ ,  $\alpha$ ,  $\mu$ ,  $\delta$  and  $\epsilon$ ), all four linked together by disulphide bonds. Both H and L chains  
10 have regions that contribute to the binding of antigen and that are highly variable from one Ig molecule to another. In addition, H and L chains contain regions that are non-variable or constant.

- The L chains consist of two domains. The carboxy-terminal domain is essentially  
15 identical among L chains of a given type and is referred to as the "constant" (C) region. The amino terminal domain varies from L chain to L chain and contributes to the binding site of the antibody. Because of its variability, it is referred to as the "variable" (V) region.

- 20 The H chains of Ig molecules are of several classes,  $\alpha$ ,  $\mu$ ,  $\sigma$ ,  $\alpha$ , and  $\gamma$  (of which there are several sub-classes). An assembled Ig molecule consisting of one or more units of two identical H and L chains, derives its name from the H chain that it possesses. Thus, there are five Ig isotypes: IgA, IgM, IgD, IgE and IgG (with four sub-classes based on the differences in the 'constant' regions of the H chains, i.e., IgG1, IgG2,  
25 IgG3 and IgG4). Further detail regarding antibody structure and their various functions can be found in, Using Antibodies: A laboratory manual, Cold Spring Harbour Laboratory Press.

In a preferred method of the invention said fragment is a Fab fragment.

In a further preferred method of the invention said antibody is selected from the group consisting of: F(ab')<sub>2</sub>, Fab, Fv and Fd fragments; and antibodies comprising CDR3 regions.

- 5 Preferably said fragments are single chain antibody variable regions (scFV's) or domain antibodies. If a hybridoma exists for a specific monoclonal antibody it is well within the knowledge of the skilled person to isolate scFv's from mRNA extracted from said hybridoma via RT PCR. Alternatively, phage display screening can be undertaken to identify clones expressing scFv's. Domain antibodies are the smallest  
10 binding part of an antibody (approximately 13kDa). Examples of this technology is disclosed in US6, 248, 516, US6, 291, 158, US6,127, 197 and EP0368684 which are all incorporated by reference in their entirety.

- A modified antibody, or variant antibody and reference antibody, may differ in amino  
15 acid sequence by one or more substitutions, additions, deletions, truncations which may be present in any combination. Among preferred variants are those that vary from a reference polypeptide by conservative amino acid substitutions. Such substitutions are those that substitute a given amino acid by another amino acid of like characteristics. The following non-limiting list of amino acids are considered  
20 conservative replacements (similar): a) alanine, serine, and threonine; b) glutamic acid and aspartic acid; c) asparagine and glutamine d) arginine and lysine; e) isoleucine, leucine, methionine and valine and f) phenylalanine, tyrosine and tryptophan. Most highly preferred are variants which show enhanced biological activity.

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Preferably said antibody is a humanised or chimeric antibody.

A chimeric antibody is produced by recombinant methods to contain the variable region of an antibody with an invariant or constant region of a human antibody.

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A humanised antibody is produced by recombinant methods to combine the complementarity determining regions (CDRs) of an antibody with both the constant (C) regions and the framework regions from the variable (V) regions of a human antibody.

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Chimeric antibodies are recombinant antibodies in which all of the V-regions of a mouse or rat antibody are combined with human antibody C-regions. Humanised antibodies are recombinant hybrid antibodies which fuse the complementarity determining regions from a rodent antibody V-region with the framework regions from the human antibody V-regions. The C-regions from the human antibody are also used. The complementarity determining regions (CDRs) are the regions within the N-terminal domain of both the heavy and light chain of the antibody to where the majority of the variation of the V-region is restricted. These regions form loops at the surface of the antibody molecule. These loops provide the binding surface between the antibody and antigen.

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Antibodies from non-human animals provoke an immune response to the foreign antibody and its removal from the circulation. Both chimeric and humanised antibodies have reduced antigenicity when injected to a human subject because there is a reduced amount of rodent (i.e. foreign) antibody within the recombinant hybrid antibody, while the human antibody regions do not elicit an immune response. This results in a weaker immune response and a decrease in the clearance of the antibody. This is clearly desirable when using therapeutic antibodies in the treatment of human diseases. Humanised antibodies are designed to have less "foreign" antibody regions and are therefore thought to be less immunogenic than chimeric antibodies.

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In an alternative preferred method of the invention said agent is a polypeptide or a peptide. Preferably said polypeptide or peptide is modified.

In a preferred method of the invention said peptide is at least 6 amino acid residues in length. Preferably the length of said peptide/polypeptide is selected from the group

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consisting of: at least 7 amino acid residues; 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 amino acid residues in length. Alternatively the length of said peptide/polypeptide is at least 20 amino acid residues; 30; 40; 50; 60; 70; 80; 90; or 100 amino acid residues in length.

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It will be apparent to one skilled in the art that modification to the amino acid sequence of peptide agents could enhance the binding and/or stability of the peptide with respect to its target sequence. In addition, modification of the peptide may also increase the *in vivo* stability of the peptide thereby reducing the effective amount of peptide necessary to inhibit the activity of a target polypeptide. This would advantageously reduce undesirable side effects which may result *in vivo*. Alternatively or preferably, said modification includes the use of modified amino acids in the production of recombinant or synthetic forms of peptides. It will be apparent to one skilled in the art that modified amino acids include, by way of example and not by way of limitation, 4-hydroxyproline, 5-hydroxylysine, N<sup>6</sup>-acetyllysine, N<sup>6</sup>-methyllysine, N<sup>6</sup>,N<sup>6</sup>-dimethyllysine, N<sup>6</sup>,N<sup>6</sup>,N<sup>6</sup>-trimethyllysine, cyclohexylalanine, D-amino acids, ornithine. Other modifications include amino acids with a C<sub>2</sub>, C<sub>3</sub> or C<sub>4</sub> alkyl R group optionally substituted by 1, 2 or 3 substituents selected from halo (e.g. F, Br, I), hydroxy or C<sub>1</sub>-C<sub>4</sub> alkoxy. Modifications also include, by example and not by way of limitation, acetylation and amidation.

In a preferred embodiment of the invention said peptide sequence is acetylated. Preferably said acetylation is to the amino terminus of said peptide.

25 In a further preferred embodiment of the invention said peptide sequence is amidated. Preferably said amidation is to the carboxyl-terminus of said peptide.

It will also be apparent to one skilled in the art that peptides could be modified by cyclisation. Cyclisation is known in the art, (see Scott *et al* Chem Biol (2001), 8:801-815; Gellerman et al J. Peptide Res (2001), 57: 277-291; Dutta *et al* J. Peptide

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Res (2000), 8: 398-412; Ngoka and Gross J Amer Soc Mass Spec (1999), 10:360-363.

In a further preferred method of the invention said agent is nucleic acid molecule.

5 Preferably said nucleic acid molecule is an aptamer or a modified aptamer. In an alternative preferred method of the invention said nucleic acid is an inhibitory RNA (RNAi) molecule. Alternatively said nucleic acid molecule is an antisense nucleic acid molecule.

10 Nucleic acids have both linear sequence structure and a three dimensional structure which in part is determined by the linear sequence and also the environment in which these molecules are located. Conventional therapeutic molecules are small molecules, for example, peptides, polypeptides, or antibodies, which bind target molecules to produce an agonistic or antagonistic effect. It has become apparent that  
15 nucleic acid molecules also have potential with respect to providing agents with the requisite binding properties which may have therapeutic utility. These nucleic acid molecules are typically referred to as aptamers. Aptamers are small, usually stabilised, nucleic acid molecules which comprise a binding domain for a target molecule. A screening method to identify aptamers is described in US 5,270,163,  
20 which is incorporated by reference. Aptamers are typically oligonucleotides which may be single stranded oligodeoxynucleotides, oligoribonucleotides, or modified oligodeoxynucleotide or oligoribonucleotides.

The term "modified" encompasses nucleotides with a covalently modified base  
25 and/or sugar. For example, modified nucleotides include nucleotides having sugars which are covalently attached to low molecular weight organic groups other than a hydroxyl group at the 3' position and other than a phosphate group at the 5' position. Thus modified nucleotides may also include 2' substituted sugars such as 2'-O-methyl-, 2-O-alkyl-, 2-O-allyl-, 2'-S-alkyl-, 2'-S-allyl-, 2'-fluoro-, 2'-halo or 2'-azido-  
30 ribose, carbocyclic sugar analogues  $\alpha$ -anomeric sugars; epimeric sugars such as arabinose, xyloses or lyxoses, pyranose sugars, furanose sugars, and sedoheptulose.



Modified nucleotides are known in the art and include by example and not by way of limitation; alkylated purines and/or pyrimidines; acylated purines and/or pyrimidines; or other heterocycles. These classes of pyrimidines and purines are known in the art and include, pseudoisocytosine; N4, N4-ethanocytosine; 8-hydroxy-N6-methyladenine; 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil; 5-fluorouracil; 5-bromouracil; 5-carboxymethylaminomethyl-2-thiouracil; 5-carboxymethylaminomethyl uracil; dihydrouracil; inosine; N6-isopentyl-adenine; 1-methyladenine; 1-methylpseudouracil; 1-methylguanine; 2,2-dimethylguanine; 2-methyladenine; 2-methylguanine; 3-methylcytosine; 5-methylcytosine; N6-methyladenine; 7-methylguanine; 5-methylaminomethyl uracil; 5-methoxy amino methyl-2-thiouracil;  $\beta$ -D-mannosylqueosine; 5-methoxycarbonylmethyluracil; 5-methoxyuracil; 2 methylthio-N6-isopentenyladenine; uracil-5-oxyacetic acid methyl ester, psueouracil; 2-thiocytosine; 5-methyl-2 thiouracil, 2-thiouracil; 4-thiouracil; 5-methyluracil; N-uracil-5-oxyacetic acid methylester; uracil 5—oxyacetic acid; queosine; 2-thiocytosine; 5-propyluracil; 5-propylcytosine; 5-ethyluracil; 5-ethylcytosine; 5-butyluracil; 5-pentyluracil; 5-pentylcytosine; and 2,6-diaminopurine; methylpsuedouracil; 1-methylguanine; 1-methylcytosine.

The aptamers of the invention are synthesized using conventional phosphodiester linked nucleotides and synthesized using standard solid or solution phase synthesis techniques which are known in the art. Linkages between nucleotides may use alternative linking molecules. For example, linking groups of the formula P(O)S, (thioate); P(S)S, (dithioate); P(O)NR'<sup>2</sup>; P(O)R'; P(O)OR<sub>6</sub>; CO; or CONR'<sup>2</sup> wherein R is H (or a salt) or alkyl (1-12C) and R<sub>6</sub> is alkyl (1-9C) is joined to adjacent nucleotides through —O- or —S-. The binding of aptamers to a target polypeptide is readily testable.

An alternative nucleic acid molecule is a so called RNAi molecule. A recent technique to specifically ablate gene function is through the introduction of double stranded RNA, also referred to as inhibitory RNA (RNAi), into a cell which results

in the destruction of mRNA complementary to the sequence included in the RNAi molecule. The RNAi molecule comprises two complementary strands of RNA (a sense strand and an antisense strand) annealed to each other to form a double stranded RNA molecule. The RNAi molecule is typically derived from exonic or coding sequence of the gene which is to be ablated. Recent studies suggest that RNAi molecules ranging from 100-1000bp derived from coding sequence are effective inhibitors of gene expression. Surprisingly, only a few molecules of RNAi are required to block gene expression which implies the mechanism is catalytic. The site of action appears to be nuclear as little if any RNAi is detectable in the cytoplasm of cells indicating that RNAi exerts its effect during mRNA synthesis or processing.

In a preferred method of the invention there is provided a cassette comprising a nucleic acid molecule, or part thereof, wherein said molecule is selected from the group consisting of:

- i) a nucleic acid molecule represented by the nucleic acid sequence shown in Table 1 ;
- ii) a nucleic acid molecule which hybridises to the sequence in (i) above and which encodes a polypeptide which initiates or promotes transformation of colon cells; or
- iii) a nucleic acid molecule which is degenerate because of the genetic code to the sequences defined in (i) and (ii) above, wherein said cassette is adapted such that both sense and antisense nucleic acid molecules are transcribed from said cassette.

In a preferred method of the invention said cassette is provided with at least two promoters adapted to transcribe both sense and antisense strands of said nucleic acid molecule.

In a further preferred method of the invention said cassette comprises a nucleic acid molecule wherein said molecule comprises a first part linked to a second part wherein said first and second parts are complementary over at least part of their

sequence and further wherein transcription of said nucleic acid molecule produces an RNA molecule which forms a double stranded region by complementary base pairing of said first and second parts.

- 5 In a preferred embodiment of the invention said first and second parts are linked by at least one nucleotide base.

In a preferred embodiment of the invention said first and second parts are linked by 2, 3, 4, 5, 6, 7, 8, 9 or at least 10 nucleotide bases.

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In a further preferred embodiment of the invention the length of the RNAi molecule is between 100bp-1000bp. More preferably still the length of RNAi is selected from 100bp; 200bp; 300bp; 400bp; 500bp; 600bp; 700bp; 800bp; 900bp; or 1000bp. More preferably still said RNAi is at least 1000bp.

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In an alternative preferred method of the invention the RNAi molecule is between 15bp and 25bp, preferably said molecule is 21bp. Preferably said cassette is part of a vector.

- 20 According to a further aspect of the invention there is provided an antibody identified by the method according to the invention for use as a pharmaceutical.

According to a further aspect of the invention there is provided a polypeptide or peptide identified by the method according to the invention for use as a  
25 pharmaceutical.

According to a further aspect of the invention there is provided a nucleic acid molecule identified by the method according to the invention for use as a  
30 pharmaceutical.

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In a preferred embodiment of the invention said nucleic acid molecule is an aptamer.

In an alternative preferred embodiment of the invention said nucleic acid molecule is an inhibitory RNA.

- 5 In a further alternative preferred embodiment of the invention said nucleic acid molecule is an antisense nucleic acid molecule.

In a preferred embodiment of the invention said pharmaceutical further comprises a diluent, carrier or excipient.

- 10 When administered, the therapeutic compositions of the present invention are administered in pharmaceutically acceptable preparations. Such preparations may routinely contain pharmaceutically acceptable concentrations of salt, buffering agents, preservatives, compatible carriers, supplementary immune potentiating agents such as adjuvants and cytokines and optionally other therapeutic agents, such as  
15 chemotherapeutic agents.

The therapeutics of the invention can be administered by any conventional route, including injection or by gradual infusion over time. The administration may, for example, be oral, intravenous, intraperitoneal, intramuscular, intracavity,  
20 subcutaneous, or transdermal. When antibodies are used therapeutically, a preferred route of administration is by pulmonary aerosol. Techniques for preparing aerosol delivery systems containing antibodies are well known to those of skill in the art. Generally, such systems should utilize components which will not significantly impair the biological properties of the antibodies, such as the paratope binding  
25 capacity (see, for example, Sciarra and Cutie, "Aerosols," in Remington's Pharmaceutical Sciences, 18th edition, 1990, pp 1694-1712; incorporated by reference). Those of skill in the art can readily determine the various parameters and conditions for producing antibody aerosols without resort to undue experimentation. When using antisense preparations of the invention, slow intravenous administration  
30 is preferred.

The compositions of the invention are administered in effective amounts. An "effective amount" is that amount of a composition that alone, or together with further doses, produces the desired response. In the case of treating a particular disease, such as cancer, the desired response is inhibiting the progression of the disease. This may involve only slowing the progression of the disease temporarily, although more preferably, it involves halting the progression of the disease permanently. This can be monitored by routine methods or can be monitored according to diagnostic methods of the invention discussed herein.

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Such amounts will depend, of course, on the particular condition being treated, the severity of the condition, the individual patient parameters including age, physical condition, size and weight, the duration of the treatment, the nature of concurrent therapy (if any), the specific route of administration and like factors within the knowledge and expertise of the health practitioner. These factors are well known to those of ordinary skill in the art and can be addressed with no more than routine experimentation. It is generally preferred that a maximum dose of the individual components or combinations thereof be used, that is, the highest safe dose according to sound medical judgment. It will be understood by those of ordinary skill in the art, however, that a patient may insist upon a lower dose or tolerable dose for medical reasons, psychological reasons or for virtually any other reasons.

The pharmaceutical compositions used in the foregoing methods preferably are sterile and contain an effective amount for producing the desired response in a unit of weight or volume suitable for administration to a patient. The response can, for example, be determined by measuring the physiological effects of the composition, such as regression of a tumour, decrease of disease symptoms, modulation of apoptosis, etc.

The doses of pharmaceutical agent administered to a subject can be chosen in accordance with different parameters, in particular in accordance with the mode of

administration used and the state of the subject. Other factors include the desired period of treatment. In the event that a response in a subject is insufficient at the initial doses applied, higher doses (or effectively higher doses by a different, more localized delivery route) may be employed to the extent that patient tolerance permits.

In general, doses of pharmaceutical are formulated and administered in doses between 1 ng and about 500mg, and between 10 ng and 100mg, according to any standard procedure in the art. Where nucleic acids are employed, doses of between 1 ng and 0.1mg generally will be formulated and administered according to standard procedures. Other protocols for the administration of compositions will be known to one of ordinary skill in the art, in which the dose amount, schedule of injections, sites of injections, mode of administration (e.g., intra-tumoral) and the like vary from the foregoing. Administration of pharmaceutical compositions to mammals other than humans, e.g. for testing purposes or veterinary therapeutic purposes, is carried out under substantially the same conditions as described above. A subject, as used herein, is a mammal, preferably a human, and including a non-human primate, cow, horse, pig, sheep, goat, dog, cat or rodent.

When administered, the pharmaceutical preparations of the invention are applied in pharmaceutically-acceptable amounts and in pharmaceutically-acceptable compositions. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredients. Such preparations may routinely contain salts, buffering agents, preservatives, compatible carriers, and optionally other therapeutic agents. When used in medicine, the salts should be pharmaceutically acceptable, but non-pharmaceutically acceptable salts may conveniently be used to prepare pharmaceutically-acceptable salts thereof and are not excluded from the scope of the invention. Such pharmacologically and pharmaceutically-acceptable salts include, but are not limited to, those prepared from the following acids: hydrochloric, hydrobromic, sulfuric, nitric, phosphoric, maleic, acetic, salicylic, citric, formic,

malonic, succinic, and the like. Also, pharmaceutically-acceptable salts can be prepared as alkaline metal or alkaline earth salts, such as sodium, potassium or calcium salts.

5 Pharmaceutial compositions may be combined, if desired, with a pharmaceutically-acceptable carrier. The term "pharmaceutically-acceptable carrier" as used herein means one or more compatible solid or liquid fillers, diluents or encapsulating substances which are suitable for administration into a human. The term "carrier" denotes an organic or inorganic ingredient, natural or synthetic, with which the active  
10 ingredient is combined to facilitate the application. The components of the pharmaceutical compositions also are capable of being co-mingled with the molecules of the present invention, and with each other, in a manner such that there is no interaction which would substantially impair the desired pharmaceutical efficacy.

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The pharmaceutical compositions may contain suitable buffering agents, including: acetic acid in a salt; citric acid in a salt; boric acid in a salt; and phosphoric acid in a salt.

20 The pharmaceutical compositions also may contain, optionally, suitable preservatives, such as: benzalkonium chloride; chlorobutanol; parabens and thimerosal.

The pharmaceutical compositions may conveniently be presented in unit dosage form  
25 and may be prepared by any of the methods well-known in the art of pharmacy. All methods include the step of bringing the active agent into association with a carrier which constitutes one or more accessory ingredients. In general, the compositions are prepared by uniformly and intimately bringing the active compound into association with a liquid carrier, a finely divided solid carrier, or both, and then, if  
30 necessary, shaping the product.

Compositions suitable for oral administration may be presented as discrete units, such as capsules, tablets, lozenges, each containing a predetermined amount of the active compound. Other compositions include suspensions in aqueous liquids or non-aqueous liquids such as a syrup, elixir or an emulsion.

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Compositions suitable for parenteral administration conveniently comprise a sterile aqueous or non-aqueous preparation of pharmaceutical agents, which is preferably isotonic with the blood of the recipient. This preparation may be formulated according to known methods using suitable dispersing or wetting agents and  
10 suspending agents. The sterile injectable preparation also may be a sterile injectable solution or suspension in a non-toxic parenterally-acceptable diluent or solvent, for example, as a solution in 1,3-butane diol. Among the acceptable vehicles and solvents that may be employed are water, Ringer's solution, and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a  
15 solvent or suspending medium. For this purpose any bland fixed oil may be employed including synthetic mono-or di-glycerides. In addition, fatty acids such as oleic acid may be used in the preparation of injectables. Carrier formulation suitable for oral, subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's Pharmaceutical Sciences, Mack Publishing Co., Easton, PA.

20

An embodiment of the invention will now be described by example only and with reference to the following Figures and Tables;

Figure 1 illustrates a concentration-response of cells growing in butyrate as sole  
25 carbon source. This is the summary of four independent repeat experiments. Legend shows butyrate concentrations in mM;

Figure 2 illustrates the purity and quality of RNA preparation. The 28S and 18S sample bands are tight and clearly resolved for RNA prepared from butyrate- and  
30 glucose-grown cells. Little or no DNA or salt contamination appears in the samples;



Table 1 illustrates nucleic acid sequences identified by the screening method according to the invention; and

- 5 Table 2 illustrates a summary of expression data of nucleic acid sequences identified in Table 1.

#### Materials and Methods

- 10 We have compared the expression profiles of colon cells growing in either glucose or butyrate as a carbon source. HT 29 colon carcinoma cells were cultured in DMEM medium (Gibco) in the presence of 10% foetal calf serum, penicillin and streptomycin. Cells were either cultured in glucose alone as the sole carbon source, or in butyrate as the sole extraneous provided carbon source. Empirical analysis of
- 15 HT29 cells grown in multiple butyrate concentrations revealed that 2mM butyrate was optimal for cell culture in the absence of glucose. Cells were cultured in either medium for multiple passages (typically 4). RNA was extracted from cells grown in each condition and used to probe an Affymetrix human 12k array. The expression profile of cells cultured in each condition was compared and genes altered in
- 20 expression by more than 2 fold are listed in Table 2.

#### Materials used during this study

<u>ITEM</u>	<u>ITEM - SPECIFICS</u>	<u>SUPPLIER</u>
Glucose medium (1)	Dulbecco's Modified Eagle Medium 25 mM HEPES 1 x 0.1 micron filtered with sodium pyruvate, with 1000	GIBCO

	mg/l glucose with pyridoxine + FCS + p/s (500 ml)	
Butyrate medium (2) 0.2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 110 µl + FCS + p/s (555.1 ml)	GIBCO
Butyrate medium (3) 2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 1100 µl + FCS + p/s (556.1 ml)	GIBCO
Medium without glucose and without butyrate (4)	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + FCS + p/s (550 ml)	GIBCO
NaB stock	Sodium Butyrate powder dissolved in sterile water 250 mg in 2.27 ml water	Sigma

	(1M) 0.2 $\mu$ m filter sterilised	
Sterile syringes	5 ml	Becton Dickinson UK, Ltd
Sterilising filters	0.2 $\mu$ m Acrodisc	Gelman Sciences, Ltd
<u>Item</u>	<u>Item specifics</u>	<u>Supplier</u>
FCS	Foetal Calf Serum 50 ml per 500 ml DMEM	Harlan Sera Lab
P/S	Penicillin - Streptomycin solution 100ml bottle (100 X) - 5 ml per 500 ml DMEM	Sigma
TE for splitting cells	Trypsin Enzyme - 100 ml bottle - 3 ml per T75 and 1 ml per 6 well plate well	Sigma
FCS tubes	50 ml Centrifuge tubes	Corning Inc
P/S + TE tubes	30 ml Universal containers	Bibby Sterilin Ltd
Tissue Culture Plates	6 well sterile with lid single packed	Greiner bio-one
Tissue Culture Flasks	T 75	Nuncclon
Stripette ® 5ml, 10ml,	Serological Pipette,	Corning Inc / Costar

25 ml	individually wrapped	
Pipette	Powerpette plus	Jencons
Cell Counting Slide	Haemocytometer, improved Neubauer	Neubauer
Ethanol for tissue culture	70 % EtOH	Sigma
Virkon for cell culture	1 % Virkon	Day Impex, Ltd
Microscope for cell work	Light 6 – 10X	CK Olympus, Tokyo
Paper towels	Blue	Jamont (UK), Ltd
Latex-free examination gloves	Large	Shermond Surgical Supply, Ltd
<u>Item</u>	<u>Item specifics</u>	<u>Supplier</u>
RNA extraction reagent	TRIzol ® Reagent	Invitrogen – Life technologies
RNA extraction reagent	Chloroform	Sigma
RNA extraction reagent	Isopropyl alcohol	Sigma

RNA extraction reagent	75% EtOH in DEPC-treated water	Sigma
RNA extraction reagent	Rnase-free water	Sigma
RNA clean up kit	Rneasy Midi Kit (10 RNeasy midi spin columns)	Qiagen
$\beta$ - Mercaptoethanol	14.3 M stock solution	Sigma
Ethanol for Qiagen	96-100% EtOH	Sigma
Agarose	1g in 100 ml TB-EDTA-Buffer	Helena Biosciences, UK
TB-EDTA- Buffer	Tris-Borate-EDTA buffer 100ml	Sigma
Eppendorf tubes	1.5 ml	Sarstedt Laboratory supplies, Ltd
Loading buffer	6 X	Promega

#### The Human Colon Carcinoma Cell Line - HT29

5 The HT29 cell line is established from a colon adenocarcinoma which was removed from a 44 year old Caucasian woman. The cell line is epithelial in origin and hypertriploid. It has been shown to be tumourigenic in nude mice and synthesizes Carcino embryonic antigen - CEA (Egan & Todd, 1972) and the Transforming

growth factors - TGF- $\alpha$  and TGF- $\beta$  (Anzano *et al.* 1989) when maintained *in vitro*. The HT29 cell line constitutively over-produces mutant p53 protein as a consequence of a point mutation at codon 273, resulting in an Arginine to Histidine amino acid substitution (Hsu *et al.* 1994).

5

#### The Culture of HT29 Colorectal adenocarcinoma cells

Cells were cultured in T75 tissue culture flasks (Nunc) in 5% CO<sub>2</sub> at 37°C. Cells were passaged when confluent by washing twice in PBS and incubating in pre-warmed trypsin : EDTA (1:1) at 37°C until cells detached. The cells were then  
10 re-suspended in the appropriate growth medium, either glucose DMEM or butyrate DMEM before being seeded into new T75 tissue culture flasks or 6-well plates.

#### Optimisation of HT29 cell growth in butyrate as sole extraneous carbon source

15

HT29 cells were seeded out into 19 wells (in 6 well plates) at a cell density of 0.5 x 10<sup>6</sup> cells per well (i.e. 500 000 cells per well) deduced with the aid of a Haemocytometer (Improved Neubauer). These cells were taken from T75 - 0.2 mM butyrate (NaB) DMEM flasks and allowed to adhere to the 6-well plates over 72 hrs  
20 also in 0.2 mM NaB DMEM with FCS and Penicillin / Streptomycin antibiotics. After the cells had adhered to the surface of the 6 well plates the 0.2 mM NaB DMEM was removed and each well was washed twice with PBS in order to remove all traces of the 0.2 mM DMEM, then different concentrations of NaB DMEM with FCS and with Penicillin / Streptomycin antibiotics were added to the appropriate  
25 wells in triplicate. Cell counts were taken at various time points. Specific media was changed daily in order to maintain the appropriate / desired NaB concentrations per well. All solutions / reagents used were pre-warmed in a water bath prior to use so as to avoid any cold shock to the cells.

30

### RNA extraction using TRIzol® Reagent

Total RNA was extracted from HT29 cells grown to confluence in T75 flasks using TRIzol Reagent as per manufacturer's recommendations. Cells were grown for  
5 several passages either in butyrate-containing medium, or in glucose-containing medium prior to extraction of RNA

Cells were homogenised using 1 ml TRIzol Reagent per 10 cm<sup>2</sup> area of culture surface. The homogenised samples were incubated for 5 minutes at ambient  
10 temperature to permit the complete dissociation of nucleoprotein complexes. 200µl of chloroform was added to each sample. Tubes were shaken vigorously by hand for 15 seconds and incubated at ambient temperature for 3 minutes. Samples were centrifuged at 12000g for 15 minutes at 4°C. RNA in the aqueous phase was separated and precipitated using isopropyl alcohol. RNA was rinsed, air dried and  
15 redissolved in RNase-free water.

RNA was further purified using Qiagen RNeasy columns. The columns were used exactly as per manufacturer's recommendations. RNA was eluted into RNase-free  
20 water.

RNA purified in this way was analysed by agarose gel to establish purity and quality. The gel is shown in figure 2.

### Microarray analysis

25 Microarray analysis was undertaken as a commercial service by the University of Newcastle-upon-Tyne. In this study, the 2 RNA samples (1x butyrate + 1x glucose) from the 2 experimental conditions (butyrate + glucose) were sent to the Institute for Human Genetics at the University of Newcastle-upon-Tyne for microarray analysis.  
30 This was performed on a 12 k Affymetrix *Homo sapiens* gene chip. Genes altered in expression by more than 2 fold on the microarray are listed in table 1.

Table 1

Human mitochondrial ADP/ADT translocator mRNA, complete cds.

ccccctagcg	tcgcgcaggg	tcggggactg	cgcgcggtgc	caggccgggc	gtgggcgaga	60
gcacgaacgg	gctgctgcgg	gctgagagcg	tcgagctgtc	accatgggtg	atcacgcttg	120
gagcttccta	aaggacttcc	tggccggggc	ggtcgccgct	gccgtctcca	agaccgcggt	180
cgcccccatc	gagagggcca	aactgctgct	gcaggtccag	catgccagca	aacagatcag	240
tgctgagaag	cagtacaaag	ggatcattga	ttgtgtggtg	agaatcccta	aggagcaggg	300
cttcctctcc	ttctggaggg	gtaacctggc	caacgtgac	cgttacttcc	ccaccaagc	360
tctcaacttc	gccttcaagg	acaagtacaa	gcagctcttc	ttagggggtg	tggatcgcca	420
taagcagttc	tggcgctact	ttgctggtaa	cctggcgctc	gggtggggccg	ctggggccac	480
ctccctttgc	tttgtctacc	cgctggactt	tgctaggacc	agggtggctg	ctgatgtggg	540
caggcgcgcc	cagcgtgagt	tccatggctc	ggcgactgt	atcatcaaga	tcttcaagtc	600
tgatggcctg	agggggctct	accagggttt	caacgtctct	gtccaaggca	tcattatcta	660
tagagctgcc	tacttcggag	tctatgatac	tgccaagggg	atgctgcctg	acccaagaa	720
cgtgcacatt	tttgtgagct	ggatgattgc	ccagagtgtg	acggcagtcg	cagggtgct	780
gtcctacccc	tttgacactg	ttcgtcgtag	aatgatgatg	cagtccggcc	ggaaaggggc	840
cgatattatg	tacacgggga	cagttgactg	ctggaggaag	attgcaaaag	acgaaggagc	900
caaggccttc	ttcaaagggt	cctgggtccaa	tgtgctgaga	ggcatgggcg	gtgcttttgt	960
attggtgttg	tatgatgaga	tcaaaaaata	tgtctaattg	aattaaaaca	caagttcaca	1020
gatttacatg	aacttgatct	acaagttcac	agatccattg	tgtggtttaa	tagactattc	1080
ctaggggaag	taaaaagatc	tgggataaaa	ccagactgaa	aggaatacct	cagaagagat	1140
gcttcattga	gtgttcatta	aaccacacat	gtattttgta	tttattttac	atttaaattc	1200
ccacagcaaa	tagaaataat	ttatcatact	tgtacaatta	actgaagaat	tgataataac	1260
tgaatgtgaa	acatcaataa	agaccactta	atgcacaaaa	aaaaaaaaaa	aaaaaaaaaa	1320



## Homo sapiens mRNA for VNN1 protein

cattggactt	cagcatgact	actcagttgc	cagcttaact	ggcaattttg	cttttctatg	60
tctcaagagc	cagctgccag	gacactttca	ttgcagctgt	ttatgagcat	gcagcgatat	120
tgcccaatgc	caccctaaca	ccagtgtctc	gtgaggaggc	tttggcatta	atgaatcgga	180
atctggacat	tttggaaagg	gcgatcacat	cagcagcaga	tcagggtgcg	catattattg	240
tgactccaga	agatgctatt	tatggctgga	acttcaacag	ggactctctc	tacccatatt	300
tgaggagcat	cccagaccct	gaagtaaact	ggatcccttg	taataatcgt	aacagatttg	360
gccagacccc	agtacaagaa	agactcagct	gcctggccaa	gaacaactct	atctatgttg	420
tggaataat	tggggacaag	aagccatgcg	ataccagtga	tcctcagtgt	ccccctgatg	480
gccgttacca	atacaacact	gatgtggtat	ttgattctca	aggaaaactg	gtggcacgct	540
accataagca	aaaccttttc	atgggtgaaa	atcaattcaa	tgtacccaag	gagcctgaga	600
ttgtgacttt	caataccacc	tttggaaagt	ttggcatttt	cacatgcttt	gatatactct	660
tccatgatcc	tgtgtttacc	ttgggtgaaag	atttccacgt	ggacaccata	gtattcccaa	720
cagcttggtg	gaatgttttg	ccacatttgt	cagctccttg	attccactca	gcttgggcta	780
tgggcattag	ggcgaatttc	cttgcaccca	acatacatta	cccctcaaag	aaaatgacag	840
gaagtggcat	ctatgcaccc	aattcttcaa	gagcatttca	ttatgatatg	agacagagaag	900
agggaaaact	cctcctctcg	caactggatt	cccacccatc	ccattctgca	gtgggtgaact	960
ggacttccta	tgccagcagt	atagaagcgc	tctcatcagg	aaacaaggaa	tttaaaggca	1020
ctgtcttttt	cgatgaattc	acttttgtga	agctcacagg	agttgcagga	aattatacag	1080
tttgtcagaa	agatctctgc	tgtcatttaa	gctacaaaat	gtctgagaac	ataccaaatg	1140
aagtgtacgc	tctaggggca	tttgacggac	tgcacactgt	ggaaggggcg	tattatctac	1200
agattttgtac	cctgttgaaa	tgtaaaacga	ctaattttaa	cacttgccgtg	gactcagctg	1260
aaacagcttc	taccaggttt	gaaatgttct	ccctcagtgg	cactttcgga	accagtatg	1320
tctttctctga	gggtgttgctg	agtgaataatc	agcttgccac	tggaagaattt	caggtgtcaa	1380
ctgacggacg	cttgttttagt	ctgaagccaa	catccggacc	tgtcttaaca	gtaactctgt	1440
ttgggaggtt	gtatgagaag	gactgggcat	caaatgcttc	atcaggcctc	acagcacaag	1500
caagaataat	aatgctaata	gttatagcac	ctattgtatg	ctcattaaagt	tggtagaata	1560
ttgactttttt	ctcttttttta	tttgggataa	tttaaaaaat	gatggatgag	aaaagaaaga	1620
ttgggtccggg	ttaatatattat	cctctagtat	aagtgaatta	ctagtttctc	tttattttaga	1680
caaacacaca	cacaccagat	aatataaact	taataaatta	tctgttaatg	tagattttat	1740
ttaaaaaact	atatttgaac	attgggtcttt	cttggacgtg	agctaattat	atcaaaataag	1800
tatcacaat	cttttacgca	gaagaaataa	aaactacggg	tagaaaacat	aagaactatc	1860
ataaaattta	cttacaagga	ggctgctctt	gttaccactt	ttattatatt	acgtatcact	1920
tattcagctc	tgtgaaaat	ttccaatgac	tttgtttgtt	tgtcttttta	gttttttacc	1980
taaaacaatac	atttttgattc	tcttgtgggt	tgataatgtc	tccccaaaat	ttacatgttg	2040
aagcacctca	gaatgtgact	gtatttggag	acagggtctt	taaagaggta	aaataagggtc	2100
attaggatag	accctaattc	aatatgactg	atgatcataa	aagaagaggc	gagtagggca	2160
caacaggcac	aaaggagagc	cataaggaga	cacagaggaa	ggacaactct	ttacaagcta	2220
agaagagagg	gcctcagaag	aaaccaaccc	tgccaacacc	ttgatcttgg	acttccagcc	2280
tccaaaacta	tgagaaataa	atctctattg	tttaagtcat	ccagtccatg	gtactttgtt	2340
aggcagccct	ggcaaatgaa	tcaaagaccc	attctctgtt	ctctccccac	cactactgtt	2400
ttctactgta	atctgaagct	tcaacaaaag	gcttacctgg	taagaatatt	cagctgggtct	2460
gggtcctcaa	gactccaata	gacactctta	aagaaggatt	gctgatggat	tgatagtga	2520
accattagat	cattgaattc	ctctggaatt	agaaaaccag	agagtcccat	tttaagaaat	2580
tagatattta	atatagcatt	gtgtgttcta	ttttagtaac	agcagaatct	cttgacatta	2640
cacaactcag	tgaaacaaca	tcattttaagc	caaaatatct	cccaactgac	tgatagactc	2700
tgagcactaa	tatcatagtg	ctgtgatgat	ggacaattac	atagtaccga	taacagccat	2760
gcactgtgca	aagcatgccc	ttctgcacag	gagagcaagg	cacttgcaag	agtgatctat	2820
gccagcaaaa	catcattttg	agacaaacat	tttttgggca	gatgtttttc	ctaaaaagta	2880
ctatatcatc	caagaaatat	ttgagtataa	tcccttggtc	ttttgggtga	cattaactga	2940
catttgcttt	ttttcaagac	ctaatagaaa	ataagaaagc	ccataatgta	tttagaaaca	3000
ggaatcctca	gagcaattct	ctgtattctc	atataatttc	aatgtaaaac	agaaaacata	3060
ttgatgtgtt	ggtgataggc	ttgaattatt	aaaaacttca	aaaacaaaa		3109

## Homo sapiens transmembrane protein 5, mRNA

ggctgggct	gcctcggacg	ccgcgggtgt	cgcggtattct	ctttccgccc	gctccatggc	60
ggtgatgcc	tgactggaag	cccagtggtg	atgcggctga	cgcggaagcg	gctctgctcg	120
tttcttatcg	ccctgtactg	cctattctcc	ctctacgctg	cctaccacgt	cttcttcggg	180
cgccgcccgc	aggcgccggc	cgggtccccg	cggggcctca	ggaagggggc	ggcccccgcg	240
cgggagagac	gcggccgaga	acagtccact	ttggaaagt	aagaatggaa	tccttgggaa	300
ggagatgaaa	aaaatgagca	acaacacaga	tttaaaacta	gccttcaa	attagataaa	360
tccacgaaag	gaaaaacaga	tctcagtgt	caaactctgg	gcaaagctgc	cattggcttg	420
tatctctggg	agcatatttt	tgaaggctta	cttgatccca	gcgatgtgac	tgctcaatgg	480
agagaaggaa	agtcaatcgt	aggaagaaca	cagtacagct	tcatcactgg	tccagctgta	540
ataccaggtg	acttctccgt	tgatgtgaat	aatgtggtac	tcatttttaa	tggaagagaa	600
aaagcaaaga	tcttttatgc	caccagtggt	ttactttatg	cacaaaattt	agtgcaaatt	660
caaaaactcc	agcatcttgc	tggtgttttg	ctcggaatg	aacattgtga	taatgagtgg	720
ataaacccat	tcctcaaaag	aaatggaggc	ttcgtggagc	tgcttttcat	aatatatgac	780
agcccctgga	ttaatgacgt	ggatgttttt	cagtggcctt	taggagtagc	aacatacagg	840
aattttcctg	tggtggaggc	aagttggtca	atgctgcatg	atgagaggcc	atatttatgt	900
aattttcttag	gaacgattta	tgaaaattca	tccagacagg	cactaatgaa	cattttgaaa	960
aaagatggga	acgataagct	ttggtgggtt	tcagcaagag	aacactggca	gcctcaggaa	1020
acaaatgaaa	gtcttaagaa	ttaccaagat	gccttgcttc	agagtgatct	cacattgtgc	1080
ccggtcggag	taaacacaga	atgctatcga	atctatgagg	cttgctccta	tggtccattt	1140
cctgtggtgg	aagacgtgat	gacagctggc	aactgtggga	atacatctgt	gcaccacggt	1200
gctcctctgc	agttactcaa	gtccatgggt	gctcccttta	tctttatcaa	gaactggaag	1260
gaactccctg	ctgtttttaga	aaaagagaaa	actataat	tacaagaaaa	aattgaaaga	1320
agaaaaatgt	tacttcagt	gtatcagcac	ttcaagacag	agcttaaaat	gaaatttact	1380
aatatttttag	aaagctcatt	tttaatgaat	aataaaagt	aattatcttt	ttgagctaaa	1440
aaaaaaaa	aaaaaaaa	aaaaaaaa				

## Homo sapiens CD3e-associated protein (CAST) mRNA, complete cds.

cccaggatgg	aggagcccca	ggcggcggt	gaggatgctg	ctcggttctc	ttgtccccc	60
aactttaccg	cgaagcccc	agcctcagag	tccctcggt	tctccttgga	ggcgtgacg	120
ggtcacagata	cggagctgtg	gcttattcag	gcccctgcag	actttgcccc	agaatgcttc	180
aatgggcggc	atgtgcctct	ctctggctcc	cagatcgta	agggcaaatt	ggcaggcaag	240
cggcaccgct	atcgagtcct	cagcagctgt	ccccaagctg	gagaagcgac	cctgctggcc	300
ccctcaacgg	aggcaggagg	tggactcacc	tgtgcctcag	ccccccagg	caccctaagg	360
atccttgagg	gtccccagca	atccctgtca	gggagccctc	tgcagcccat	cccagcaagt	420
ccccaccac	agatccctcc	tggcctgagg	cctcggttct	gtgccttttg	gggcaaccca	480
ccagtcacag	ggcctaggtc	agccttggcc	cccaacctgc	tcacctcagg	gaagaagaaa	540
aaggagatgc	aggtgacaga	ggccccagtc	actcaggagg	cagtgaatgg	gcacggggcc	600
ctggagggtg	acatggcttt	ggggtcgcca	gaaatggatg	tgcggaagaa	gaagaagaaa	660
aaaaatcagc	agctgaaaga	accagaggca	gcagggcctg	tggggacaga	gccacagtg	720
gagacactgg	agcctctggg	agtgtgttc	ccgtccacca	ccaagaagag	gaagaagccc	780
aaagggaag	aaaccttcga	gccagaagac	aagacagtga	agcaggaaca	gattaacact	840
gagcctctag	aagacacagt	cctgtccccg	accaaaaaga	gaaagaggca	aaaggggacg	900
gaagggatgg	agccagagga	gggggtgaca	gttgagtctc	agccacaggt	gaagggtggag	960
ccactggagg	aagccatccc	tctgccccct	acgaagaaga	ggaaaaaaga	aaagggacag	1020
atggcaatga	tggagccagg	gacggaggcg	atggagccag	tggagccgga	gatgaagcct	1080
ctggagtccc	caggggggac	catggcgct	caacagccag	aaggagcgaa	gcctcaggcc	1140
caggcagctc	tggcagctcc	caaaaagaag	acgaagaaag	aaaaacagca	agatgccaca	1200
gtggagccag	agacagaggt	ggtggggcct	gagctgccc	atgacctga	gcctcaggca	1260
gctcccacat	ccaccaagaa	gaagaagaag	aagaaagaga	gaggtcacac	agtgactgag	1320
ccaattcagc	cactagagcc	tgaactgcca	ggggaggggac	agcctgaagc	cagggcaact	1380
ccgggatcca	ccaagaagag	gaagaagcag	agttaggaaa	gccggatgcc	agagacagtg	1440
ccccaaagg	agatgccagg	gccgccactg	aattcagagt	ctggggaggga	ggctcccaca	1500
ggcggggaca	agaagcggaa	gcagcagcag	cagcagcctg	tgtagtctgc	ccccgggaaa	1560
ctgaggaact	aaagaagct	gaaggtgccc	acctgggcca	ccagaaggtg	acacccccag	1620
aatccctccc	cagagactgc	accagcgag	ccagcaggag	cctggcctgg	gaggacgatt	1680
tattattaca	ctgggggttt	ccttggcagc	tgggtcatc	aggggtacttt	caagaagggc	1740
tcgtgcagga	catcaaacag	cctccgggccc	tggatgggag	ggagaaaaaa	atgaggaacc	1800
gtcatataa	ggagctgttt	cctgggtaaa	aaaaaaaaa	a		

Homo sapiens Apo-2 ligand mRNA, complete cds.

```

tttcctcact gactataaaa gaatagagaa ggaagggctt cagtgaccgg ctgcctggct      60
gacttacagc agtcagactc tgacaggatc atggctatga tggaggtcca ggggggaccc      120
agcctgggac agacctgcgt gctgatcgtg atcttcacag tgctcctgca gtctctctgt      180
gtggctgtaa cttacgtgta ctttaccaac gagctgaagc agatgcagga caagtactcc      240
aaaagtggca ttgcttggtt cttaaaagaa gatgacagtt attgggaccc caatgacgaa      300
gagagtatga acagccctg ctggcaagtc aagtggcaac tccgtcagct cgttagaaag      360
atgattttga gaacctctga ggaaaccatt tctacagttc aagaaaagca acaaatatt      420
tctcccctag tgagagaaaag aggtcctcag agagtagcag ctcacataac tgggaccaga      480
ggaagaagca acacattgtc ttctccaaac tccaagaatg aaaaggctct gggccgcaaa      540
ataaactcct gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg      600
aatggtgaac tgggtcatcca tgaaaaaggg ttttactaca tctattcca aacatacttt      660
cgatttcagg aggaaataaa agaaaacaca aagaacgaca acaaatggt ccaatatatt      720
tacaaataca caagttatcc tgacctata ttgttgatga aaagtctag aaatagtgt      780
tgggtctaaag atgcagaata tggactctat tccatctatc aagggggaat atttgagctt      840
aagggaaatg acagaatttt tgtttctgta acaaatgagc acttgataga catggaccat      900
gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga aaaagcaata      960
acctcaaagt gactattcag ttttcaggat gatacactat gaagatgttt caaaaaatct     1020
gaccaaaaca aacaaacaga aa

```

## Homo sapiens mRNA for annexin A13 (ANXA13 gene), isoform b

```

gtaaactttg cctgtaggag gactgatctc ttaatgaaat acagaaaaac catctcagaa      60
aaaggaaaat gggcaatcgt catagccagt cgtacaccct ctcagaaggc agtcaacagt      120
tgcctaaagg ggactcccaa ccctcgacag tctgcagacc tctcagccac ccatcacgga      180
atggagagcc agaggcccca cagcctgcta aagcgagcag tcctcagggt tttgatgtgg      240
atcgagatgc caaaaagctg aacaaagcct gcaaaggaat ggggaccaat gaagcagcca      300
tcattgaaat cttatcgggc aggacatcag atgagaggca acaaatacaag caaaagtaca      360
aggcaacgta cggcaaggag ctggaggaag tactcaagag tgagctgagt ggaaacttcg      420
agaagacagc gttggccctt ctggaccgtc ccagcgagta cgccgcccgg cagctgcaga      480
aggctatgaa gggctctggc acagatgagt ccgtctcat tgaggtcctg tgcacgagga      540
ccaataagga aatcatcgcc attaaagagg cctaccaaag gctatttgat aggagcctcg      600
aatcagatgt caaagtgat acaagtggaa acctaaaaaa aatcctggtg tctctgctgc      660
aggctaactg caatgaagga gatgacgtgg acaagatct agctggtcag gatgccaaag      720
atctgtatga tgcaggggaa ggccgctggg gcactgatga gcttgcggtc aatgaagtcc      780
tggccaagag gagctacaag cagttacgag ccacctttca agcctatcaa attctcattg      840
gcaaagacat agaagaagcc attgaagaag aaacatcagg cgacttgacg aaggcctatt      900
taactctcgt gagatgtgcc caggattgtg aggactatct tgctgaacgt ctgtacaagt      960
cgatgaaggg tgcggggacc gatgaggaga cgttgattcg catagtcgtg accaggggcg      1020
aggtggacct tcaggggac aaagcaaagt tccaagagaa gtatcagaag tctctctctg      1080
acatggttcg ctcatatacc tccggggact tccggaaact gctagtagcc ctcttgcaact      1140
gagccaagcc agggcaatag gaacacaggg tggaaaccacc tttgtcaaga gcacattcca      1200
aatcaaaactt gcaaatgaga ctcccgcacg aaaaccctta agagtcccgg attactttct      1260
tggcagctta agtggcgacg ccaggccaag ctgtgtaagt taagggcagt aacgtaaga      1320
tgcgtgggca gggcaccttg aactctggct tagcaagcat ctaggctgcc tcttcacttt      1380
cttttagcat ggtaactgga tgttttctaa acactaatga aatcagcagt tgatgaaaaa      1440
actatgcatt tgtaatggca catttagaag gatatgcac acacaagtaa ggtacaggaa      1500
agacaaaatt aaacaattta ttaattttcc ttctgtgtgt tcaatttgaa agcctcattg      1560
ttaaattaaag ttgtggatta tgcctcta

```

Homo sapiens serine protease inhibitor, Kazal type 1, mRNA (cDNA clone

```
cgcagaactt cagccatgaa ggtaacaggc atctttcttc tcagtgcctt ggccctgttg      60
agtctatctg gtaacactgg agctgactcc ctgggaagag aggccaaatg ttacaatgaa      120
cttaatggat gcaccaagat atatgaccct gtctgtggga ctgatggaaa tacttatccc      180
aatgaatgcg tgttatgttt tgaaaatcgg aaacgccaga cttctatcct cattcaaaaa      240
tctgggcctt gctgagaacc aaggttttga aatcccatca ggtcaccgcg aggctgact      300
ggccttattg ttgaataaat gtatctgaat atcaaaaaaa aaaaaaaaaa aaaaaaaaaa      360
aa
```

## Homo sapiens B cell linker protein BLNK mRNA, alternatively spliced

ccttcgtggc	cgcagcctgc	actctcagaa	atcagacttg	agtggccgga	acccttgaga	60
ccagaggcct	accatgctgc	tccctaggag	ggccaggaac	tgctgacgtg	accactggac	120
agttattcgt	gtctcttaca	attaccaaac	agaatggaca	agcttaataa	aataaccgtc	180
cccgccagtc	agaagttgag	gcagcttcaa	aagatggtcc	atgatattaa	aaacaatgaa	240
ggtggaataa	tgaataaaaat	caaaaagcta	aaagtcaaag	cacctccaag	tgcttcctga	300
agggactacg	cttcagagag	ccccgctgac	gaagaggagc	agtggtcgga	tgactttgac	360
agcgactatg	aaaatccaga	tgagcactcg	gactcagaga	tgtacgtgat	gcccgcgag	420
gagaacgctg	atgacagcta	cgagccgcct	ccagtagagc	aggaaaaccag	gccggttcac	480
ccagccctgc	ccttcgccag	aggcgagtat	atagacaatc	gatcaagcca	gaggcattcc	540
ccacccttca	gcaagacact	tcccagtaag	cccagctggc	cttcagagaa	agcaaggctc	600
acctccaccc	tgccggccct	gactgctttg	cagaaacctc	aagtcccacc	caaaccocaa	660
ggcctccttg	aggatgaggc	tgattatgtg	gtccccgtgg	aagataatga	tgaaaactat	720
attcatccca	cagaaagcag	ttcacctcca	cctgaaaaag	ctcccatggt	gaatagatca	780
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aaaaaaccaa	cgacaccact	gaagacaact	ccagttgcct	ctcaacagaa	tgcttcaagt	960
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ggcagaaaga	aaaatggtga	agagtacttt	ggaagtgttg	ctgaaatcat	caggaatcat	1440
caacatagtc	ctttggttct	tattgacagt	cagaataaca	caaaaagattc	caccagactg	1500
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ggttgagtta	tcattgctact	aatattttcc	aaataaatat	ttttattttt	aaaaaaaaaa	1800
aaaaaa						

Homo sapiens cDNA FLJ12768 fis, clone NT2RP2001576, weakly similar to  
HYPOTHETICAL 62.2 KD PROTEIN C4G8.12C IN CHROMOSOME I

agtctccgcg	ctgctgaggg	gcgcccggcc	gctcccacgg	cctccccctcc	gccctgcggt	60
cccgccgcct	ccggggcctc	ctgggaccct	ggccctcgcc	gggcaggacg	ccgccagcgc	120
tgaaggcgca	gcccggaggg	cgcgcgatg	cagatctgtg	gatccagcgt	agcatctgta	180
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ccgcagacgg	gctatgtgca	cccagatgag	ttcttccagt	cccctgaggt	gatggcagag	360
gacatcctgg	gogttcaggc	cgcgcgcc	tgggagtttt	accccagcag	ctcctgccgc	420
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gatccaccag	ccctgtcctc	cttgtctgag	ggggcttgg	gggaccacct	cagtcttcac	1860
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tggttattat	gcaaacaagt	aatgtttgaa	atatataata	gcactgg		



Homo sapiens glycine amidinotransferase (L-arginine:glycine  
amidinotransferase), mRNA (cDNA clone MGC:1744 IMAGE:3010128), complete

```

cggggaaggct tggaccgacg cggcccagag gccaggaaca ttccgcgcgt ggaccagccg      60
ggccagggcg atgctgcggg tgcgggtgtct gcgcggcggg agccgcggcg ccgaggcggt      120
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ccgtatgtgt atttttattc taataaaactt ttgtgttcca gaaaaaaaaa aaaaaaaaaa      2340
aa

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Homo sapiens cDNA FLJ10143 fis, clone HEMBA1003281, weakly similar to  
POLIOVIRUS RECEPTOR PRECURSOR.

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agggaaactcg	agagcagcct	ccatgggcac	acaggagggc	tgggtgcctgc	tgctctgcct	180
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acaacaacca	agccagttta	atggtaggaa	tttgtatttt	ttgcctttgt	tcagaatata	1680
tgacattgggt	aaat					

Homo sapiens leucine aminopeptidase 3, mRNA (cDNA clone IMAGE:2821948), partial cds

gtctggccgt	gagacgtttc	gggagccgga	gtctctccac	cgcagacatg	acgaagggcc	60
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ggaaaggcat	gactgggagg	cccacaagga	ctctcattga	gttcttactt	cgtttcagtc	1500
aagacaatgc	ttagttcaga	tactcaaaaa	tgtcttcact	ctgtcttaaa	ttggacagtt	1560
gaacttaaaa	ggtttttgaa	taaatggatg	aaaatctttt	aacggagaca	aaggatggta	1620
tttaaaaatg	tagaacacaa	tgaaatttgt	atgccttgat	ttttttttca	tttcacacaa	1680
agatttataa	aggtaaagtt	aatatcttac	ttgataagga	tttttaagat	actctataaa	1740
tgattaaaaat	ttttagaact	tcctaatac	ttttcagagt	atatgttttt	cattgagaag	1800
caaaattgta	actcagattt	gtgatgctag	gaacatgagc	aaactgaaaa	ttactatgca	1860
cttgtcagaa	acaataaatg	caacttggtg	tgctcaaaaa	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa					

Homo sapiens mRNA for protein phosphatase 4 regulatory subunit 2 (PPP4R2 gene)

actgtacaaa	tgctttat	ctattcaata	tttagaagac	agttataaac	aagatgcatt	60
caatagcatg	gtggcagatg	aacatcagga	aggaacatcc	atgagcttcc	atccacggaa	120
cctcaccatg	gatacgcttg	tgatcaaggg	cctgggtctcc	cctcaagaca	cggtcacaga	180
tcagaggcca	caccatccta	gcagtggagc	agtaccagct	gggacagggg	ccttctgtga	240
cacctgctgc	atcaccaggc	tgggtgaacg	gacacaattg	ccagaactca	cagaatagaa	300
gtatcagcac	cgaaacctca	caggaaaaat	ggtaagttct	aagtttctcc	attaatagta	360
actctcagat	taatctctgt	catccatcgc	ttctccaaga	aatgactttt	taggggtgatg	420
tgccaggcgc	catgttggag	ggctgggtgg	agcggttgg	ggaggtgctc	actctgtcgg	480
tcttgctctc	tcgcacgctt	cccccggtc	ccttcgtttc	ccccccccgg	tcgcctgcgt	540
gcgggagtgt	gtgcgagggg	gggggagggc	gtcggggggg	tggggggagg	cgttccggtc	600
cccaaaagac	ccgcggaggg	aggcggaggg	tgtgagggac	tccgggaagc	catggacgtc	660
gagaggctcc	aggaggcgct	gaaagatttt	gagaagaggg	ggaaaaagga	agtttgcct	720
gtcctggatc	agtttctttg	tcattgtagc	aagactggag	aaacaatgat	tcagtgggtcc	780
caatttaag	gctattttat	tttcaaactg	gagaaagtga	tggatgattt	cagaacttca	840
gctcctgagc	caagagggtcc	tccaaccct	aatgtcgaat	atattccctt	tgatgaaatg	900
aaggaaagaa	tactgaaaat	tgctactgga	tttaatggta	tcccttttac	tattcagcga	960
ctatgtgaat	tgtaacaga	tccaaggaga	aactatacag	gaacagacaa	atttctcaga	1020
ggagtagaaa	agaacgtgat	ggttggttagc	tgtgtttatc	cttcttcaga	gagaaacaat	1080
tccaatagtt	taaatcgaat	gaatgggtgtg	atgtttcctg	gaaatgcacc	aagctatact	1140
gagaggctca	atataaatgg	gcctggggaca	cccaggccac	gtaatcgacc	aaagggtttct	1200
ctgtcagccc	ccatgacaac	aaatgggtgg	cctgagagca	cagacagcaa	agaggcaaat	1260
ttgcagcaaa	atgaggagaa	aactcacagt	gactcttcga	catctgaatc	agaagtttcc	1320
tcagtgaagc	ctttgagaaa	taaacatcca	gatgaagatg	ctgtggaagc	tgaggggcat	1380
gaggtaaaaa	gactcaggtt	tgacaaagaa	ggtgaagtca	gagaaacagc	cagtcaaacg	1440
acttccagcg	aaattttctt	agttatggta	ggagaaacag	aagcatcatc	ttcatctcag	1500
gataaagaca	aagatagccg	ttgtaccccg	cagcactgta	cagaagagga	tgaagaagag	1560
gatgaagagg	aagaagaaga	gtcttttatg	acatcaagag	aaatgatccc	agaaagaaaa	1620
aatcaagaaa	agaatctga	tgatgcctta	actgtgaatg	aagagacttc	tgaagaaaat	1680
aatcaaatgg	aggaatctga	tgtgtctcaa	gctgagaaag	atttgctaca	ttctgaagggt	1740
agtgaaaacg	aaggccctga	aagtaagtgg	ttcttctgac	tgccgtgaaa	cagaaaaatt	1800
agtaggaacc	aattcccagt	aaaactggaa	agaatctttc	cagaatcatc	ccatggataa	1860
tgatgacgaa	gccacagaag	tcaccgatga	accactggaa	caagactatt	tagaaacatt	1920
tacatgcagt	attttacaca	cagttctggg	tttaacactg	tataaaactt	ttatgtaaaa	1980
aagtgcacct	ttagtttttac	aagtaaagca	ggttgtaaaa	taaagtactt	tatggataat	2040
tcctgaaag						

## Human mRNA for (2'-5') oligo A synthetase E (1,6 kb RNA)

gaggcagttc	tgttgccact	ctctctcctg	tcaatgatgg	atctcagaaa	taccccagcc	60
aaatctctgg	acaagttcat	tgaagactat	ctcttgccag	acacgtgttt	ccgcatgcaa	120
atcgaccatg	ccattgacat	catctgtggg	ttcctgaagg	aaaggtgctt	ccgaggtagc	180
tcctaccctg	tgtgtgtgtc	caaggtggta	aaggggtggc	cctcaggcaa	gggcaccacc	240
ctcagaggcc	gatctgacgc	tgacctgggt	gtcttcctca	gtcctctcac	cacttttcag	300
gatcagttaa	atcgccgggg	agagttcacc	caggaaatta	ggagacagct	ggaagcctgt	360
caaagagaga	gagcactttc	cgtgaagttt	gaggtccagg	ctccacgctg	gggcaacccc	420
cgtgcgctca	gcttcgtact	gagttcgctc	cagctcgggg	aggggggtga	gttcgatgtg	480
ctgcctgcct	ttgatgccct	gggtcagttg	actggcagct	ataaacctaa	cccccaaata	540
tatgtcaagc	tcacgagga	gtgcaccgac	ctgcagaaag	agggcgagtt	ctccacctgc	600
ttcacagaac	tacagagaga	cttcctgaag	cagcgcccca	ccaagctcaa	gagcctcatc	660
cgccctagtca	agcactggta	ccaaaattgt	aagaagaagc	ttgggaagct	gccacctcag	720
tatgccttgg	agctcctgac	ggtctatgct	tgggagcgag	ggagcatgaa	aacacatttc	780
aacacagccc	aaggatttcg	gacggtcttg	gaattagtca	taaactacca	gcaactctgc	840
atctactgga	caaagtatta	tgactttaaa	aaccccatata	ttgaaaagta	cctgagaagg	900
cagctcacga	aacccaggcc	tgtgatcctg	gacccggcgg	accctacagg	aaacttgggt	960
ggtggagacc	caaaggggtg	gaggcagctg	gcacaagagg	ctgaggcctg	gctgaattac	1020
ccatgcttta	agaattggga	tgggtcccca	gtgagctcct	ggattctgct	ggtgagacct	1080
cctgcttcct	ccctgccatt	catccctgcc	cctctccatg	aagcttgaga	catatagctg	1140
gagaccatc	tttccaaaga	acttacctct	tgccaaaggc	catttatatt	catatagtga	1200
caggctgtgc	tccatatttt	acagtcattt	tggtcacaat	cgagggtttc	tggatttttc	1260
acatcccttg	tccagaattc	attcccctaa	gagtaataat	aaataatctc	taacacccaa	1320
aa						

Homo sapiens A-kinase anchoring protein 18 beta mRNA, complete cds.

```
gctcgcagac tgtgctataa actgcaattt ctatTTgggg tcttcacgga gaagaacacc      60
aggaaagaca gacaggacca gtgccatggg ccagctttgc tgcTTtcctt tctcaagaga      120
tgaaggaaaa atcagtgagt tggaaaagctc gtcctctgca gtcctacaaa gatacagcaa      180
ggatataccc agttgggtcaa gtggtgaaaa gaacggaggg gagcccgatg acgctgaact      240
agtaaggctc agtaagaggc tgggtggagaa cgcggtgctc aaggctgtcc agcagtatct      300
ggaggaaaaca cagaataaaa acaagccggg ggaggggagc tctgtgaaaa ccgaagcagc      360
tgatcagaat ggcaatgaca atgagaacaa caggaaatga gcccggaacg caggccccca      420
tgtctctgtg caaagcctcc ctgcttccct ctgctgagtc tag
```

## Homo sapiens peptidyl prolyl isomerase H (cyclophilin H), mRNA (cDNA clone

cttctgcttc	cgggtcggag	ccatggcggt	ggcaaattca	agtcctgtta	accccggtgt	60
gttctttgat	gtcagtattg	gcggtcagga	agttggccgc	atgaagatcg	agctctttgc	120
agacgttggt	cctaagacgg	ccgagaactt	taggcagttc	tgcaccggag	aattcaggaa	180
agatgggggt	ccaataggat	acaaaggaag	caccttccac	agggtcataa	aggatttcat	240
gattcagggg	ggagattttg	ttaatggaga	tggtagtga	gtcgccagta	tttaccgggg	300
gccatttgca	gatgaaaatt	ttaaaacttag	acactcagct	ccaggcctgc	tttccatggc	360
gaacagtggt	ccaagtacaa	atggctgtca	gttctttatc	acctgctcta	agtgcgattg	420
gctggatggg	aagcatgtgg	tgtttggaaa	aatcatcgat	ggacttctag	tgatgagaaa	480
gattgagaat	gttcccacag	gccccaaaca	taagcccaag	ctacctgtgg	tgatctcgca	540
gtgtggggag	atgtagtcca	gacaaagact	gaatcaggcc	ttcccttctt	cttggtggtg	600
ttcttgagta	agataatctg	gactggcccc	cgctcttgct	tcctgcctg	ctgctgcccc	660
atttgatcaa	gagaccatgg	aagtgtcaga	gattcagaat	ccaagattgt	ctttaagttt	720
tcaactgtaa	ataaaagttt	tttgtatgcg	taaaaaaaaa	aaaaa		

Homo sapiens mRNA; cDNA DKFZp564C0362 (from clone DKFZp564C0362); complete cds

```

gggggaggct gtgatgggtt gacaggtgcg tgacagtggg agctgctctc ggcacaagca      60
tgtacggcaa aggcaagagt aacagcagcg ccgccccgtc cgacagccag gcccgggaga      120
agttagcact ctacgtatat gaatatctgc tccatgtagg agctcagaaa tcagctcaaa      180
catttttctc agagataaga tgggaaaaaa acatcacatt gggggaacca ccaggattct      240
tacattcttg gtggtgtgta ttttgggatc tctactgtgc agctccagag agacgtgaaa      300
catgtgaaca ctcaagtgaa gcaaaagcct tccatgatta cagtgtgca gcagctccca      360
gtccagtgtc aggaaacatt cccccaggag atggcatgcc agtaggtcct gtaccaccag      420
ggttctttca gccttttatg tcacctcggt accctggagg tccaaggccc ccattgagga      480
tacctaatac ggcacttgga ggtgtcccag gaagtcagcc attactcccc agaggaatgg      540
atccaactcg acaacaagga catccaaata tgggtgggcc aatgcagaga atgactctc      600
caagaggaat ggtgccctta ggaccacaga actatggagg tgcaatgaga cccccactga      660
atgcttttagg tggccctgga atgcctggaa tgaacatggg tccaggtggg ggtagacctt      720
ggccaaaacc aacaaatgcc aattcaatac catactctc agcatctcct gggaattatg      780
taggtcctcc aggaggtgga gggccaccag gaacacccat catgcctagt ccagcagatt      840
caaccaactc tggtgataac atgtatactt taatgaatgc agtacctcct ggacctaaaca      900
gacctaatct tccaatgggc cctgggtcag atggtcccat ggggtggatta ggaggaatgg      960
agtcacatca catgaatggc tctttaggct caggagatat ggacagtatt tccaagaatt      1020
ctcccaataa tatgagcctg agtaatcaac cgggcactcc aagggatgat ggcgaaatgg      1080
ggggaaatct cttaaatcct tttcagagtg agagttactc ccctagcatg acaatgagcg      1140
tgtgatccat taccaagtct cctcatgaaa accacagtga gtcagccctt cacagaacta      1200
ctacggaaga aaattattca tcacagtgtc cagttaaaca aaggaatctc agtcacacca      1260
aaccaacctt ttcatttctc gctctctccc ctcttttggt aagaaagcgg gtccagatgt      1320
gattcaaaaca actgtacgga gtggcatatt agaattgccc taaactgaac tgcaataat      1380
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catatacaca tacatacatt gaccacagag acattgtaaa atattatcac atgacatctt      1500
aagtagaaat aagtagggac ttttattcca tccttttttt cacgtttaca ttttaattat      1560
tacaagttgc tcctgcccc tcctgaaact attttgtgct gtgtatatca ctgctttata      1620
taagttatct ttttaaggtga actcagatgt tatgggtttg tatatgtctg caatcatgga      1680
taggaataaa atcgcttatt tgagagcttt caaaaaaaaa aaaaaaaaaa c

```



Human interferon-induced cellular resistance mediator protein (MxB) mRNA,  
complete cds.

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aagagatgat ttctccatcc tgaacgtgca gcgagcttgt caggaagatc ggaggtgcc 60
agtagcagag aaagcatccc ccagctctga caggagagaca gcacatgtct aaggcccaca 120
agccttggcc ctaccggagg agaagtcaat tttcttctcg aaaataacctg aaaaaagaaa 180
tgaattcctt ccagcaacag ccaccgccat tcggcacagt gccaccacaa atgatgtttc 240
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tcaactttgaa caatcagcca ccaccaggaa acaggagcca accaagggca atggggcccg 360
agaacaacct gtacagccag tacgagcaga aggtgcgccc ctgcattgac ctcatcgact 420
ccctgcgggc tctgggtgtg gagcaggacc tggccctgcc agccatcgcc gtcacggggg 480
accagagctc gggcaagagc tctgtgctgg aggcactgtc aggagtgcg cttccagag 540
gcagcggaat cgtaacaggg tgtccgtgtg tgctgaaact gaaaaagcag ccctgtgagg 600
cagcgggcgg aaggatcagc taccggaaca ccgagctaga gcttcaggac cctggccagg 660
tggagaaaga gatacaciaa gcccagaacg tcatggccgg gaatggccgg ggcacagcc 720
atgagctcat cagcctggag atcacctccc ctgaggttcc agacctgacc atcattgacc 780
ttcccggcat caccagggtg gctgtggaca accagccccg agacatcgga ctgcagatca 840
aggctctcat caagaagtac atccagaggc agcagacgat caacttgggtg gtggttccct 900
gtaacgtgga cattgccacc acggaggcgc tgagcatggc ccatgaggtg gaccggag 960
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taggcatcca cctgaatgcc tacttcttgg aaaccagcaa acgtctcgcc aaccagatcc 2040
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gggtcccttc agatccagt gccatgcccc ctgcttccca tgggtcactg tcatttgtgt 2820
tcccagctc tccactcccc cgccagaaaag gagcctgagt gattctctt tcttcttgt 2880
tccctgatta tgatgagctt ccattgttct gttaagtctt gaagaggaa ttaataaagc 2940
aaagaaactt tttaaaaacg t

```

## Human Ro/SSA ribonucleoprotein homolog (RoRet) mRNA, complete cds.

gaccacgcg	tccgaaaagc	tatggcctca	accaccagca	ccaagaagat	gatggaggaa	60
gccacctgct	ccatctgcct	gagcctgatg	acgaaccag	taagcatcaa	ctgtggacac	120
agctactgcc	acttgtgtat	aacagacttc	tttaaaaacc	caagccaaaa	gcaactgagg	180
caggagacat	tctgctgtcc	ccagtgtcgg	gctccatttc	atatggatag	cctccgaccc	240
aacaagcagc	tgggaagcct	cattgaagcc	ctcaaagaga	cggatcaaga	aatgtcatgt	300
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gactatgagg	ctggtctggg	gctgaagagc	aatgaactca	agagccacat	cctggaactg	720
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aggagttggg	ctgtgaagct	ggaaacatca	gaggtgtctc	ccttggaact	tcatactatg	840
tgcactgttg	atccagatac	agctcatcac	gaactaattc	tctctgagga	tcggagacaa	900
gtgactcgtg	gatacaccca	ggagaatcag	gacacatctt	ccaggagatt	tactgccttc	960
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ttcagagaag	agcaaataga	ccttaacttc	attttgaaaa	agaccaaatt	accatacccg	2160
agtgaagta	gacaggacta	caactaaaac	ataaacaaca	ttaatgatga	ccataaaaaag	2220
tcacaaaatt	gctaaatggt	ataattttag	gttgacataa	aaattgatgg	ccaggcatgg	2280
tggctcacgc	ctgtaatccc	agaactatgt	gaggtgagg	caggtggatc	acttgaggtc	2340
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aattgcttga	gcctgcagca	gctgcagtaa	gccaagatca	tgctgtgcct	caaggaaaaa	2520
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gcataagaag	tattttgagt	tgaagacaat	tgagaaaaaa	aaaaaaaaaa	aa	2820
						2872

Homo sapiens cDNA FLJ10465 fis, clone NT2RP1001616.

actctgctgc	cggtctctcg	gagcggcgct	gggcgaccag	agcagggctcg	agatgtccta	60
catcccgggc	cagccgggtca	ccgccgtggt	gcaaagagtt	gaaattcaca	agctgcgtca	120
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gaatcccttc	tctgaagaca	agacggaca	ggtgagggg	tctgggggtcc	tgggaccgct	240
ccatggggca	caggggcctg	agatggtggg	tctctgcttc	ctgggcctgc	atggaaggaa	300
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gtattttttt	aatcacaagt	ttgatacaaa	atgtttttat	cgt		1843

Homo sapiens histone 2, H2aa, mRNA (cDNA clone MGC:2238 IMAGE:3536984),  
complete cds.

```

ccaggcagga gtttctctcg gtgactacta tcgctgtcat gtctggtcgt ggcaagcaag      60
gaggcaaggc ccgcgccaag gccaagtgcg gctcgteccg cgtggcctt cagttcccgg      120
tagggcgagt gcatcgcttg ctgcgcaaag gcaactacgc ggagcgagtg ggggcccggc      180
cgcccgtcta catggctgcg gtcctcgagt atctgaccgc cgagatcctg gagctggcgg      240
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tccgcaacga cgaggaactg aacaagctgc tgggcaaagt caccatcgcc cagggcggcg      360
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agggcaagtg aggctgacgt ccggcccaag tgggcccagc ccggcccgcg tctcgaaggg      480
gcacctgtga actcaaaagg ctcttttcag agccaccac  gttttcaaat aaaagagttg      540
ttaatgctga aaaaaaaaaa aaaaaaa

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Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

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Homo sapiens mRNA; cDNA DKFZp564K2478 (from clone DKFZp564K2478); complete

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aaaaaaaaaa	aaaa					1874

Homo sapiens cDNA FLJ20073 fis, clone COL02320.

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tttgtaaata aatgacatga tctagaaaaa aaaaaaaaaa a 3401
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Homo sapiens cDNA FLJ10913 fis, clone OVARC1000209, weakly similar to Oryza sativa submergence induced protein 2A mRNA.

gagcgcggcc	cctgggttcg	aacacggcac	cgcactgcg	cgcatggtg	ctggcctggt	60
atatggacga	cgccccgggc	gacccgcggc	aacccaccg	ccccgaccc	ggccgcccag	120
tgggcctgga	gcagctgcgg	cggtcgggg	tgctctactg	gaagctggat	gctgacaaat	180
atgagaatga	tccagaatta	gaaaagatcc	gaagagagag	gaactactcc	tggatggaca	240
tcataacccat	atgcaaagat	aaactaccaa	attatgaaga	aaagattaag	atgttctacg	300
aggagcattt	gcacttggac	gatgagatcc	gctacatcct	ggatggcagt	gggtacttcg	360
acgtgagggg	caaggaggac	cagtggatcc	ggatcttcat	ggagaaggga	gacatggtga	420
cgctccccgc	ggggatctat	caccgcttca	cggtggacga	gaagaactac	acgaaggcca	480
tgcggctgtt	tgtgggagaa	ccggtgtgga	cagcgtacaa	ccggcccgc	gaccattttg	540
aagccgcg	gcagtacgtg	aaatttctgg	cacagaccgc	ctagcagtgc	tgccctgggaa	600
ctaacaacgtg	cctcgtaaag	gtccccaatg	taatgactga	gcagaaaatc	aatcactttc	660
tctttgcttt	tagaggatag	ccttgaggct	agattatctt	tcctttgtaa	gattatttga	720
tcagaatatt	ttgtaatgaa	aggatctaga	aagcaacttg	gaagtgtaaa	gagtcacctt	780
cattttctgt	aactcaatca	agactggtgg	gtccatggcc	ctgtgttagt	tcatgcattc	840
agttgagtcc	caaatgaaag	tttcatctcc	cgaaatgcag	ttccttagat	gcccactctg	900
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agaagacact	tttttctcca	aaatgatgcc	ttgggggtgg	gagtggtagt	gggaagagct	1020
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ctgccttaat	cttatactca	tggtctggag	ttaccttata	ttcaggtata	tgtgatattt	1140
tgccctggtt	gttaaaattg	ccccatttag	attccttcta	taattgttct	tatagataag	1200
taattttatat	atgagctgtg	ttagtatttt	tttcagtgtg	agatctcttg	attctttcac	1260
aataaagctg	ttgaatttta	acaggagtat	tagtacataa	attttctact	caacaattcc	1320
gagataggat	tatgcctagt	ttgtcatatc	acagaaaaac	tccaagttaa	cttcattgtt	1380
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taggattaat	tttcttaatc	acctccacac	tgtacagagg	aaactcaagc	cttaaatgtt	1500
taagtaaaact	ctgtctcagt	tttaggatta	aaatacccac	cggtgggtgtg	atgatgccat	1560
ataccgcagg	gcttgcttct	gtcaagtgtg	actctatctc	agtaattaaa	ataagtgtctg	1620
atctactg						1628

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

```
aaacgacagg ggaaaggagg tctcactgag caccgtccca gcatccggac accacagcgg      60
cccttcgctc cacgcagaaa accacacttc tcaaaccttc actcaacaact tccttcccca      120
aagccagaag atgcacaagg aggaacatga ggtggctgtg ctggggggcac cccccagcac      180
catccttcca aggtccaccg tgatcaacat ccacagcgag acctccgtgc ccgaccatgt      240
cgtctggtec ctgttcaaca ccctcttctt gaactggtgc tgtctgggct tcatagcatt      300
cgcctactcc gtgaagtcta gggacaggaa gatggttggc gacgtgaccg gggcccaggc      360
ctatgcctcc accgccaagt gcctgaacat ctgggccctg attctgggca tcctcatgac      420
cattggattc atcctgttac tggatttcgg ctctgtgaca gtctaccata ttatgttaca      480
gataatacag gaaaaacggg gttactagta gccgccata gcctgcaacc tttgactcc      540
actgtgcaat gctggccctg cacgctgggg ctgttgcccc tgcccccttg gtctgcccc      600
tagatacagc agtttatacc cacacacctg tctacagtgt cattcaataa agtgcacgtg      660
cttgtagaaa aaaaaaaaaa aaa                                     683
```

Homo sapiens cDNA: FLJ22242 fis, clone HRC02528.

aacttttaaa	aactctcatt	ggagtaagtc	ttttcaagat	gatcctccac	aatggaggca	60
gcgttcctac	ttgtcatcac	acagctgaag	acattgtttc	ttaggtgtga	aatcggggac	120
aaaggacaaa	cagagacaca	cggcattgtt	catgggaggc	atcgtcacc	tcctgggtgt	180
tctgtgggaa	tttctgtgt	gaggaaaacg	tggccacagg	gttgtgctgt	acccaccctt	240
ccccggcgag	atggccctcg	gcctgtgccg	ctgcttccac	cctcgccact	ccatggcagc	300
ttttggtctg	tttcggctc	tgccctctgc	cctgaactct	catcgggctt	gtacctgctt	360
gctggacccc	tcacactgga	ggccagccca	tgtctcagge	ccagccctag	cctcttctcc	420
tcaaattcta	agtgttttct	cttttaggtt	ccctggcttt	gtgaatggat	catgtgtctc	480
taggtataaa	cctgacatca	tctttccacc	cggcttacct	ccaccagatc	tccccagttc	540
tgtctccatc	ttctgcctgc	agctgctctg	ttctcatggt	caactgctga	tcaactgagtc	600
tggacccttg	ttatcatttt	caaaactggc	tccttccctc	gttccocact	tcttaaagtc	660
acctgtccat	tgccaccaga	ttaagctttc	tcacccaga	tcacctctct	ctgagaaacc	720
tccattgaca	tggaaacacc	attgtctggc	acacatactc	acatacccac	cttcccgtct	780
tgatccccac	acatctttcc	agcctcccct	cccactccac	tccttgcctc	ctcctccacc	840
tccccatcct	cttgtctccc	ctcccctctg	aatccagccc	agcggggctt	ctcctgcctc	900
catcacatca	cagaagtacc	tcctgcttct	ggttttaatt	agagccttcc	ccgattacat	960
tttcctctga	atTTTTTcct	atctacattt	gatctgtcat	gtttaaaccc	cctacttcta	1020
agggaaacttc	tctaattctt	tatcctcatc	cccaaatagt	gttttcttcc	tctgggttct	1080
tataatgttg	gtatcaatct	cacagcattt	agtgtctcct	gcctgggtgtg	acagttacct	1140
gtgtgcatgt	gcaatttcta	atttcccacg	ctagactgtg	agcttcctaa	ggcaagaatc	1200
atgcctcggt	ggtttctgta	ttcctcatgg	tgccaaacac	agtgccttct	acattgcagg	1260
cgctgaataa	acatttttaa	agcaaaaaaa	aaaaaaaaaa			1300

ta77f02.x2 NCI\_CGAP\_HSC2 Homo sapiens cDNA clone IMAGE:2050107 3' similar  
to gb:L19779 HISTONE H2A.1 (HUMAN);, mRNA sequence.

```
tatacggctg cgagaagacg acagaagggg cacctgtgaa ctcaaaaggc tcttttcaga      60
gccacccacg ttttcaata aaagagttgt taatgctggc cactcccaaa aaaaaaaaaa      120
aaaaaaaaa agtcgtatcg a                                     141
```

## H.sapiens centromere autoantigen C (CENPC) mRNA, complete cds.

cggtatcgag	ctctcgggc	agtcgcctga	gacttaaggt	tattgcttgg	ccgcggcctg	60
gtattccggc	gattcgttcc	ttgctcggct	tcctggagct	gtgggtccgtg	tgggcttcca	120
cctcagacag	ttgcgctggc	tcagcggggc	cggaacatgg	ctgcgtcccg	tctggatcat	180
ctcaaaaatg	gctacagaag	aagattttgt	cgaccttcca	gggcacgtga	cattaacaca	240
gagcaaggcc	agaatgttct	ggaaatctta	caagactggt	ttgaagaaaa	aagtcttgcc	300
aatgatttta	gtacaaatcc	tacaaaatca	gtgcctaatt	caacacgcaa	aataaaagac	360
acttgatttc	agtcaccaag	caaagagtgc	cagaaatcac	atccaaagtc	agttccagtt	420
tcttcaaaga	agaaagaagc	ctctctacag	tttggtgtag	aaccaagtga	agccacaaac	480
agatcagttc	aggcccatga	agttcatcag	aaaattctgg	caactgatgt	tagttccaaa	540
aatacacctg	actcgaaaaa	aatatcaagt	agaaacataa	atgatcatca	cagtgaagct	600
gtatgaagaat	tttacttatt	cgttggctca	ccttctgttc	ttttggatgc	aaaaacatct	660
gtatcacaaa	atgttattcc	atctagtggc	aaaaagagag	agacttacac	ttttgaaaat	720
tcagtaaata	tgctgccttc	aagtacagag	gtttcagtta	aaacccaaaa	aagggttaaac	780
tttgatgata	aagttatggt	aaagaaaata	gaaatagata	ataaagtatc	agatgaagag	840
gataaaacat	cggaaggaca	agaaagaaaa	ccatcaggat	catctcagaa	tagaatacga	900
gattcagaat	atgaaattca	acgacaagct	aaaaaaagtt	tttcaacatt	gtttttagaa	960
acagtaaaac	gaaaaagtga	atccagtcct	attggttaggc	atgcggcaac	tgctccacct	1020
cattcgtgtc	ctcccgatga	tacgaagttg	atagaggatg	aattttataat	tgatgagtcg	1080
gatcaaagtt	ttgccagtag	atcttggatt	acaataccaa	gaaaggcagg	gtctctgaaa	1140
caacgcacaa	tatccccggc	tgagagcact	gcactctttc	aaggtagaaa	gtcaagagaa	1200
aagcatcata	atatattacc	taagactttg	gcaaatgaca	aacattccca	taaacctcac	1260
ccagtagaga	catctcagcc	ctctgataaa	acagtactgg	atacaagtta	tgctttgata	1320
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gaattacca	tgcatcacia	tagtagccga	aaatctacta	agaaaacaaa	tcagtcacat	1860
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aaagtcaaca	aaaaatctaa	taagaaaagg	atctgtcttg	ataacgatga	aagaaagact	2580
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ccttaaatat	atgtatgtat	atatgtatat	gtaaaaacag	tttgtatagt	tggaaatatt	3060
gtctttgtaa	ttacttgtga	tgtttttaaaa	taaaaatttt	attcagtttt	gtgtaaaaaa	3120
aaaaaaaaaa	aa					3132

## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tcgccgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgctgtat	60
gccatcctcg	agagctgtct	agggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	ccttttggtg	aatccccagg	cccttggtgg	180
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ggagcagggt	caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	300
acagtgggtta	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	420
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cttggttttc	cactactgct	accacaacta	tattatcatg	caaagtctgt	attcttcttt	3780
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ctaaaaaaca	aagaagacaa	cattaaaaac	aatattgttt	cta		4003



## Homo sapiens ornithine decarboxylase (ODC1) mRNA, complete cds.

gaattcctgg	agagttgcct	ttgtgagaag	ctggaaatat	ttctttcaat	tccatctctt	60
agttttccat	aggaacatca	agaaatcatg	aacaactttg	gtaatgaaga	gtttgactgc	120
cacttcctcg	atgaaggttt	tactgccaa	gacattctgg	accagaaaat	taatgaagtt	180
tcttcttctg	atgataagga	tgccttctat	gtggcagacc	tgggagacat	tctaagaaaa	240
catctgaggt	ggttaaaagc	tctccctcgt	gtcaccacct	tttatgcagt	caaatgtaat	300
gatagcaaag	ccatcgtgaa	gacccttgct	gctaccggga	caggatttga	ctgtgctagc	360
aagactgaaa	tacagttggg	gcagagctcg	ggggtgcctc	cagagaggat	tatctatgca	420
aatccttgta	aacaagtatc	tcaaattaag	tatgctgcta	ataatggagt	ccagatgatg	480
acttttgata	gtgaagttga	gttgatgaaa	gttgccagag	cacatcccaa	agcaaagtgt	540
gttttgcgga	ttgccactga	tgattccaaa	gcagtctgtc	gtctcagttg	gaaattcggt	600
gccacgctca	gaaccagcag	gctccttttg	gaacgggcga	aagagctaaa	tatcgatggt	660
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cttgatattg	gcggtggcct	tcttgatctc	gaggatgtga	aacttaaaatt	tgaagagatc	840
accggcgtaa	tcaaccacgc	gttggacaaa	tactttccgt	cagactctgg	agtgagaatc	900
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cactcttcag	acacgctact	caagagtgc	cctcagctgc	tgaacaagca	ttttagctt	1740
gtacaatggc	agaatgggac	aaaagcttag	tgttgtgacc	tgttttttaa	ataaagtatc	1800
ttgaaataat	taggc					1815

Homo sapiens hephaestin (HEPH) mRNA, complete cds.

cctgtttccc	agagtaatgt	gggccatgga	gtcaggccac	ctcctctggg	ctctgctgtt	60
catgcagtcc	ttgtggcctc	aactgactga	tggagccact	cgagtctact	acctgggcat	120
ccgggatgtg	cagtggaaact	atgctcccaa	gggaagaaat	gtcatcacga	accagcctct	180
ggacagtgac	atagtggctt	ccagcttctt	aaagtctgac	aagaaccgga	tagggggaaac	240
ctacaagaag	accatctata	aagaatacaa	ggatgactca	tacacagatg	aagtggccca	300
gcctgcctgg	ttgggcttcc	tggggccagt	gttgcaggct	gaagtggggg	atgtcattct	360
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acccaccgat	gctgacccag	cgtgcctcac	ctggatctac	cattctcatg	tagatgctcc	600
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ctgacacttg	gaaggatttg	aaattttctag	aaatgtatcc	ttctcacaaa	gtagagacca	3840
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ctgaaaggaa	tgttgagtta	cctcttcatg	ttttagacag	caaaccctat	ccattaaagt	4200
acttgtaga	acact					4215

## Human 18S rRNA gene, complete.

ccgtccgtcc	gtcgtcctcc	tcgcttgagg	ggcgccgggc	ccgtcctcga	gccccnnnn	60
nccgtccggc	cgcgtcgggg	cctcgccgcg	ctctacctac	ctacctggtt	gacccctgcca	120
gtagcatatg	cttgtctcaa	agattaagcc	atgcatgtct	aagtaacgcac	ggccggtaca	180
gtgaaactgc	gaatggctca	ttaaatacagt	tatggttcct	ttggtcgctc	gctcctctcc	240
tacttggata	actgtggtta	ttctagagct	aatacatgcc	gacgggcgct	gaccccccttc	300
gcggggggga	tgctgcatt	tatcagatca	aaaccaaccc	ggtcagcccc	tctccggccc	360
cggccggggg	gcgggcggcg	gcggctttgg	tgactctaga	taacctcggg	ccgatcgcac	420
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gccgcggtaa	ttccagctcc	aatagcgtat	attaaagttg	ctgcagttaa	aaagctcgta	780
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taaaagtcgt	aacaagggtt	ccgtaggtga	acctgcggaa	ggatcatta		1969

## Homo sapiens cell death regulator aven mRNA, complete cds.

gggcgtctcc	gcagctcgcc	tcccgcgcgc	tcagcaccac	cagcggcgcc	agatgcaggg	60
ggagcgagga	gctcggggag	gccgtgggcg	gcggccaggg	cgcggccggc	ctggcggaga	120
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caaaataaac	aaatgctggt	ctgtccaaaa	aannaaaaaa	aaaaaaaaaa		1549

Homo sapiens interferon, gamma-inducible protein 16, mRNA (cDNA clone MGC:9466 IMAGE:3914632), complete cds.

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aaaaaaaaa

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Homo sapiens guanylate binding protein 1, interferon-inducible, 67kDa, mRNA  
(cDNA clone MGC:3949 IMAGE:3606865), complete cds.

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ataacaccaa aagtttataa aggcattgtg tacaatgatc aaaatcatgt tttttcttaa      2160
aaaaaaaaa aaaaaa

```

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), -complete cds.

aaacgacagg	ggaaaggagg	tctcactgag	caccgtccca	gcacccggac	accacagcgg	60
cccttcgctc	cacgcagaaa	accacacttc	tcaaaccttc	actcaacact	tccttcccca	120
aagccagaag	atgcacaagg	aggaacatga	ggtggctgtg	ctgggggcac	ccccagcac	180
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tagatacagc	agtttatacc	cacacacctg	tctacagtgt	cattcaataa	agtgcacgtg	660
cttgtgaaaa	aaaaaaaaaa	aaa				683



Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tgcgcgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgcgtgat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
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gtagacaaaa	cagaaagagc	ttgacagtaa	agtcagaaat	gtgaaggaca	aggttatgtg	660
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Homo sapiens phospholipid scramblase 1, mRNA (cDNA clone IMAGE:4253596), complete cds.

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aaa						1143

Homo sapiens metalloprotease disintegrin cysteine-rich protein, secreted form mRNA, complete cds.

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Homo sapiens matrix metalloproteinase 7 (matrilysin, uterine), mRNA (cDNA clone MGC:3913 IMAGE:3545760), complete cds.

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## Homo sapiens cDNA FLJ10650 fis, clone NT2RP2005853

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## Homo sapiens transcription factor ISGF-3 mRNA, complete cds

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Homo sapiens RNA helicase (RIG-I) mRNA, complete cds.

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aaaaa						3065



Homo sapiens melanoma differentiation associated protein-5 (MDA5) mRNA,  
complete cds.

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ctctgaaaaa	aaaaaaaaaa					3380

Homo sapiens signal transducer and activator of transcription 1, 91kDa, transcript variant beta, mRNA (cDNA clone MGC:3493 IMAGE:3627218), complete cds.

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tgacatgttt	acaaacctca	agccagcctt	gctcctggct	ggggcctggt	gaagatgctt	2520
gtattttact	tttccattgt	aattgctatc	gccatcacag	ctgaacttgt	tgagatcccc	2580
gtgttactgc	ctatcagcat	tttactactt	taaaaaaaaa	aaaaaaaaaa		2629

Homo sapiens cDNA: FLJ21350 fis, clone COL02751.

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ggaggataat	tggatgaagg	attattttct	tctttgttta	tgtgcaagaa	atgaaaataa	120
ggaattgctt	tgatcagaca	acttcttata	tttgtggtag	aaacagaact	gcccttcttg	180
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gctggggaga	tgccacccac	ccacatcttt	gctacacatg	ccatcatgag	ctagagttca	420
ccctttctcc	ttaaagccct	atttactttt	ctacttcaac	tttaaaacaa	aattaaaatg	480
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taatacatta	catatagacc	taaagaaaagt	tcatacgggt	taatcatttg	tcacatcatt	600
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gatccagctc	tgtcaccag	gctggagtgc	agtatcaaag	tatcatttct	cttacttcaa	720
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ctccatctca	aaaaaaaaaa	aaaaa				1765

## Homo sapiens IFI16b (IFI16b) mRNA, complete cds.

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tgaaaaaaaa	a					4151

Homo sapiens mRNA for STAT induced STAT inhibitor-2, complete cds.

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aagattactt	ggaagaatat	aaattccagg	tataaatgtt	tctctttttt	taaacatgtc	660
tcacatagag	tatctccgaa	tgcagctatg	taaaagagaa	ccaa		704

Homo sapiens transcription factor ISGF-3 mRNA, complete cds.						
attaaacctc	tcgccgagcc	cctccgcaga	ctctgcgccg	gaaagtttca	tttgcgtgat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
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Homo sapiens pancreas sodium bicarbonate cotransporter mRNA, complete cds.

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ccacattttt tggtttgata atatgcactt attgactccc ac 5322

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Homo sapiens interferon stimulated T-cell alpha chemoattractant precursor,  
mRNA, complete cds.

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aaaacaaaca tgagtgtgaa gggcatggct atagccttgg ctgtgatatt gtgtgtctaca 120
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Homo sapiens mRNA; cDNA DKFZp586J0323 (from clone DKFZp586J0323)

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Homo sapiens cDNA FLJ20637 fis, clone KAT03212.

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				2010

Homo sapiens sodium bicarbonate cotransporter (HNBC1) mRNA, complete cds.

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Human BRCA1-associated RING domain protein (BARD1) mRNA, complete cds.

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## Human 18S rRNA gene, complete.

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## Human mRNA for 56-KDa protein induced by interferon

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qx82h04.x1 NCI\_CGAP\_GC6 Homo sapiens cDNA clone IMAGE:2009047 3', mRNA  
sequence.

gcagctaaat	taaaatgacc	ttttatttgc	ctggacaaca	aaaattttcc	atgattttgc	60
ttttttgaaa	caatgataag	aaattttttt	ttaggcaata	agatactaag	ttgtatcaac	120
aaactgcatg	ggatatttcc	acaaggagag	gattttgttc	cctgatctag	tttacgtgac	180
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atgaaatcca	ggcactctct	ctactcttgc	tcacattctt	ccttgcccaa	ggttccagcg	360
tgatttttagg	atatcttatg	ccaaccagct	gtgccgtcac	ttctcagaga	tgtagggcca	420

Human interferon-induced cellular resistance mediator protein (MxA) mRNA,  
complete cds.

ggaattctgt	ggccatactg	cgaggagatc	ggttccgggt	cggaggctac	aggaagactc	60
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aggagaacag	ctctgtgata	ccattttaact	tgttgacatt	acttttattt	gaaggaaact	180
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ttccacaaat	ggagtacaat	aattgaaaac	aattttcaag	aaggccataa	aattttgagt	1500
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cgcactctcca	gccacatccc	tttgatcatc	cagttcttca	tgtctccagac	gtacggccag	2040
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aacatcacag	cttatttcct	cattttttata	atgtcccttc	acaaaccag	tgttttagga	2580
gcatgagtgc	cgtgtgtgtg	cgtcctgtcg	gagccctgtc	tctctctctg	taataaactc	2640
atttctagca	g					2651

Homo sapiens cDNA: FLJ21726 fis, clone COLF1088.

agtgc	atgga	gacgagaggt	gtttctaaag	atgggagaaa	tgacagcgtg	catgtgtgcc	60
gatgggagtc	accccataga	gaaggaagaa	agcagtgaca	gaggagagga	ctgctccttg		120
tccttgagta	gttggccaag	ggagagacct	cctgcacaaa	tggagggttt	ggcctcacgc		180
agaaagaagc	acacttggtt	catccctggc	agcaggaggg	aaggcgtggg	tgtagggaac		240
agggcggtgtg	gaggggatct	tttgggtgct	cttattttct	cagtgaata	caggacgcaa		300
gagcagcagt	ggacggtgag	aatggggatg	ttcccatcca	gctttcaggg	tcccatgtga		360
tagtgccccg	tggctggcct	gtgttctggg	gacagtcact	ggccacatgc	actgcagggc		420
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aagaagctgg	ccctgcgcgc	ctcctcccag	gacgaagctg	aggactggct	ggaccgggtg		780
cgggaggccc	tgcagaaggt	ccggcctcag	caggaggatg	agtgggtgaa	cgtgcagtac		840
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gggggcccct	ccttcttcaa	aatcatcacg	gccaaggctg	tcctgaagct	gcaggccgga		1200
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gagaaaggcc	ttgactccca	aggtgcttc	tgcgcagggtg	ccgatttgct	ctgctgccac		1440
ccccagcctg	ccagcctcac	tccaacctct	gctgggtcct	gatttaggct	ccccaccctt		1500
ctgcctcccc	gcaaagtccc	ccatccttcc	cctagggatg	aggccacaga	tcaggcttgc		1560
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ctttcagagc	aggggcatgg	tttccttcca	aatattttctg	ctgcttttat	aagtgtacac		1800
cctttttttt	aattataaaa	atgggctcgt	gctaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1859

xw86e11.x1 NCI\_CGAP\_Pan1 Homo sapiens cDNA clone IMAGE:2834924 3', mRNA  
sequence.

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ttggtctgtg	ttttctcctt	tctgaatttt	aatcttctgt	gatgtgagga	aatttaogtg	240
aacctttcac	atatctattt	tttcccttgt	gcacagttga	taatttcctc	ccttagattc	300
cctgagaaaa	gaaacacaaa	atattccttag	tggattatct	caggaaaaggc	aaccagaggg	360
aagaggaata	ttggaccact	gaaaatctca	accaacgcta	atattaggag	cacacgtacc	420
atgaggaaga	gaagggatgg	ggaaaccaag	atggcagagt	tagagcaaca	aagttagtaa	480
catgagagtt	tcccagcaat	ttgagtaaga				510



Human 71 kDa 2'5' oligoadenylate synthetase (p69 2-5A synthetase) mRNA,  
complete cds.

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gaagctgggt	tggtttatcc	aggaatacct	gaagccctac	gaagaatgtc	agacactgat	120
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gaaaaacaat	ttcgagatcc	agaagtccct	tgatgggtcc	accatccagg	tggtcacaaa	420
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aaaactaaag	gatttgatcc	tcttgataaa	gcactggcat	caacagtgcc	agaaaaaat	660
caaggattta	ccctcgctgt	ctccgtatgc	cctggagctg	cttacgggtg	atgcctggga	720
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agttgaccca	accaataatg	tgagtggaga	taaaatatgc	tggcaatggc	tgaaaaaaga	960
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gtttctccag	cccaacaaat	gcttcctaga	gcagattgac	agtgcgtgta	acatcatccg	1140
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taggtgcttt	aacctcacat	accctcactt	aaacttttat	cactgttgca	tataccagtt	2880
gtgatacaat	aaagaatgta	tctgg				2905

Homo sapiens cDNA FLJ20035 fis, clone COL00213.

aatctgtggt	ttttgctcaa	aactcagtc	atctggatgc	gttgaattat	agacagatgt	60
ctggccgtgc	tggagaaga	ggtcaagacc	tgatgggaga	tgtatatttc	tttgatattc	120
cattccccaa	aataggaaaa	ctcataaaat	ccaatgttcc	tgagctgaga	ggacacttcc	180
ctctcagcat	aacctgtgtc	ctgcgactca	tgtgtgtggc	ttccaagggg	gatgaccag	240
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cacacttcga	gttttatcaa	tcaaagggtg	tcttgatga	tctccctgag	gatttttagtg	660
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cgatctgttt	accaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa		1906

## Homo sapiens monocarboxylate transporter 2 (hMCT2) mRNA, complete cds.

ggaaacttct	gcctcaggtg	gggagaggag	tccatagatc	agggaaactt	atgtcttggg	60
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ctttgaaact	ctcatggacc	tcggtgggtgc	accaagattt	tccagtgcgc	tcggacttgt	1260
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agatgttaac	gtcaaagttt	caaatgcaca	gagtgttaacc	tcagaaagag	aaactaacat	1560
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tcttggttat	atggagaatt	ctgaatccca	aacccttggt	ttaagtaggt	agaaggagga	1920
tgctaatacc	tacaaagtga	ccctttatac	atttcatttt	ttatttgata	ttaaagtatg	1980
agatagagtt	gagagacaat	taattatccc	ctcttacaca	caaacacaca	tactcccaca	2040
tacttaccca	catgtacaca	gagtatctgg	agaataaaac	ccaaattcaa	aaaaaaaaaa	2100
aaaa						2104

Homo sapiens interferon-induced protein 44, mRNA (cDNA clone MGC:24007

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aactaggact	atgtacacca	gaaacactgt	tttgttgatg	tgttacaaaa	tataactccc	420
caactaattt	ccagatagat	ggaagaaata	gaaaagtgat	tatggactta	aagacaatgg	480
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601067066F1 NIH\_MGC\_10 Homo sapiens cDNA clone IMAGE:3453257 5', mRNA sequence.

aaatctcaag acacattcac aaacaaatgg ttatcaccaa ggtcttcatg ctctactcat	60
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atgtggggcc cctggaatgc tactgggcac tctctaacct agtcctagaa atttcagttc	300
caataatgtt ttcttcttct tttctagata gaaactatat gtatctcgtg gatctgccag	360
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ccaccaaaca ctggggccac cacatcgata cctgcagcat ctttagtcaa gttggaggag	480
aaagacaaca cttggtctaa gacacggcag caagacatcc ctgcatatgt tccagataaa	540
aatgaaagct gtcacacca cttgcctccc caatctgtta aacagcttcg tgtctagtat	600
gagctcagta ctttgctgtg gaaaatccca gaagcccccg ctgtcaatgg ttcccatcc	660
aaccctgttt gctcctgtgt aacagtcaga tgatgactaa taataaaact gtactttttg	720
gaaaaaaaca aaaggggggc ggcâaaâgac cccgâg	756

## Human glutamate receptor subunit (GluH1) mRNA, complete cds.

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aatgcaaaaa	ggaatatgca	gcacattttt	gccttcttct	gcaccgggtt	cctaggcgcg	120
gtagtaggtg	ccaatttccc	caacaatata	cagatcgggg	gattatttcc	aaaccagcag	180
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accctgtcta	atgaaacctg	tgtctctgag	agtagagtca	ctggaacact	aatgaggaaa	3120
ctgcactgtt	ttattttaat	tcagttgtta	gtgtgtctta	gtgtgtgcaa	tttttccc	3178

zn32e02.s1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone  
IMAGE:549146 3', mRNA sequence.

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tattaatttg aggaaaatac accaaaatac attaagtaaa ttatttaaga tcatagagct      180
tgtaagtgaa aagataaaat ttgacctcag aaactctgag cattaaaaat ccactattag      240
caaataaatt actatggact tcttgcttta attttgtgat gaatatgggg tgtcactggg      300
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taacatggat atgagttgac aagtttctct ttcttcaatc ttttaagggg cagaggaaat      420
gaggaagaaa agaaaaggaa ttacagcaat actgggtcct tcctatagga aggattagat      480
atgtttcctt tgccaaatat aaaaanaatt aataatggtt accaccagtg aaccnagggt      540
attagggaaa taatggtcca gcacncttg ccagaaaggg gtaagatggg tatgggtgaa      600
c                                                                    601
```

Homo sapiens mRNA expressed in osteoblast, complete cds.

gcacgaggaa gccacagatc tcttaagaac tttctgtctc caaacctgtg ctgctcgata	60
aatcagacag aacagttaat cctcaattta agcctgatct aacccttaga aacagatata	120
gaacaatgga agtgacaaca agattgacat ggaatgatga aaatcatctg cgcaactgct	180
tggaaatggt tctttgagtc ttctctataa gtctagtgtt catggaggta gcattgaaga	240
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aaaccccatc tccactgc	2058



DE wy59c01.x1 Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1 Homo sapiens cDNA clone  
DE IMAGE:2552832 3', mRNA sequence.

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Homo sapiens mRNA for C11ORF25 gene

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actaattcca	ctaagtacaa	gggagttttt	tacactcctc	catttttata	gcactctgat	5760
tttttttttt	tgttaggtac	atgtatacac	ctgcctgagt	ataaatactc	tctctacctc	5820

ataataacat	caaccaacat	cttttccaaa	ttagggccac	agaacagcaa	catttgtctg	5880
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aaaatatttt	aatttaaaaa	ttgtaataca	ttgatttata	aaatgccttc	tctgatactt	6060
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tgtattacat	gaatgctgct	tatatatttt	catattctaa	cttgtctttt	caagcaaata	6360
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tctgtgcacg	tactttttaga	taaaatgctg	ctgagtgcac	gcatgatgag	atacaacttc	6540
tgaatgctgc	acattcttcc	aaaatgatcc	ttagcacaat	ctattgtatg	atggaatgaa	6600
tagaaaactt	tttctactcaa	taaattatta	tttgatatgg	t		6641

## Homo sapiens isopentenyl-diphosphate delta isomerase, mRNA (cDNA clone

gtgttctaga	acagatcaga	cattttgtaa	tgatgcctga	aataaacact	aaccacctcg	60
acaagcaaca	ggttcaactc	ctggcagaga	tgtgtatcct	tattgatgaa	aatgacaata	120
aaattggagc	tgagaccaag	aagaattgtc	acctgaacga	gaacattgag	aaaggattat	180
tgcatcgagc	tttttagtgtc	ttcttattca	acaccgaaaa	taagcttctg	ctacagcaaa	240
gatcagatgc	taagattacc	tttccagggt	gttttacgaa	tacgtgttgt	agtcattccat	300
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gaoggtgaa	agctgagcta	ggaattccct	tggaaagggt	tcctccagaa	gaaattaatt	420
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gctattgtta	tgtgtcaaag	gaagaactaa	aagaacttct	gaaaaaagca	gccagtgggtg	600
aaattaagat	aacgccatgg	tttaaaatta	ttgcagcgac	ttttctcttt	aaatgggtggg	660
ataacttaaa	tcatttgaat	cagtttgttg	accatgagaa	aatatacaga	atgtgaatat	720
gtaggtaaat	gattacagaa	aaatttatct	gcttaacaaa	cttagaatga	ctttttccctt	780
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acaacaacaa	aggcctgtgt	taatgttaaa	tagatgagat	tatggaatgt	gtatattaat	1740
gttaaaaatt	gtaccttgat	caatgtactt	tttataaact	tgccatagat	atctcagatt	1800
tgaacctca	agacagattt	attattctta	aatgctgtat	gataatgaag	aaaaataaaa	1860
atttatttct	tgcaaagtta	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a	1911

## Human prostaglandin endoperoxide synthase mRNA, complete cds.

gggccatgag	cgggagtctc	ttgctccggt	tcttgetggt	cctgctcctg	ctccgcgcgc	60
tcccgcctct	gctcgcggac	ccaggggggc	ccagccaggt	gaatccctgt	tgttactatc	120
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attcactgcg	gcccagcccc	tctttcaccc	acttctgtct	cactcacggg	cgctgggtct	300
gggagtttgt	caatgccacc	ttcatccgag	agatgctcat	gcgcctggta	ctcacagtgc	360
gctccaacct	tatccccagt	ccccccacct	acaactcagc	acatgactac	atcagctggg	420
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ccacacccat	gggaaccaaa	gggaagaagc	agttgccaga	tgcccagctc	ctggcccggc	540
gcttctctgt	caggaggaag	ttcatacctg	acccccaagg	caccaacctc	atgtttgect	600
tctttgcaca	acacttcacc	caccagttct	tcaaaacttc	tggcaagatg	ggctctggct	660
tcaccaaggc	cttgggcat	ggggtagacc	tggccacat	ttatggagac	aatctggagc	720
gtcagtatca	actgcccgtc	tttaaggatg	ggaaactcaa	gtaccagggt	ctggatggag	780
aaatgtaccc	gccctcggtg	gaagaggcgc	ctgtgttgat	gcactacccc	cgaggcatcc	840
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gtaacacagt	cattctagga	tgtggagcta	ctgatgaaat	ctgctagaaa	gttaggggggt	2160
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attcacgcc	ttgggttgaa	gctaccagag	ctctatcccc	atccagggtct	tgactcatgg	2520
cagctgtttc	tcatgaagct	aataaaattc	gcc			2554

602381868F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4499393 5', mRNA sequence.

tgtgaataga	caagaagctg	tactatatgt	gctctctcag	tggcaacaat	gaagttttgc	60
aattctagaa	cttggatttt	ttttttaaca	aaagtcccaa	aacaccaaaa	atgtaaacia	120
gataagagat	taatattgta	gtgatgtaat	ttaattaaag	ttatattttg	ggttaatttt	180
aacaactgaa	gtcttattgt	tgaaacttat	tttcaacaaa	actgtgcagt	taaatttgta	240
tacgtattca	catactgaaa	gatgaaccgt	taaaatagca	cttaatttgt	gtttcttcaa	300
tatgtcttga	tatactttgt	gcaattaata	ttacacatgt	aagttgtatg	gcagtttaca	360
gaactcaatg	acttgtcatg	aggttttcat	atgagctaca	cattgtgtac	attgatgggt	420
ttttattttt	acataaatcc	attctgtcat	tttcaacttt	atatataaat	ctccaatgtt	480
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aaaaaaaaaa	aaaaaaaaaa	aggggggggg	ggaaaaaaaa	accacggggg	gcacaaatct	660
atccgccacc	cacgtttaga	tcaaaggggc	ccaagagag	agacaaaaga	aagcgacggc	720
gacacaacaa	ccgggggcac	acgcgtacga	ctaggagag	cacaatcgcg	gtagtaggac	780
acacacaaaa	aacgagaaca	aacaggaccg	tgacaccacc	tgcgattgcc	taataaaaag	840
gcagaaacgg	cacgcacagc	gacgagcacg	cagcagaaac	accacacgca	gcaccatgta	900
c						901

Homo sapiens mRNA for quinolinate phosphoribosyl transferase, complete cds.

atggacgctg	aaggcctggc	gctgctgctg	ccgcccgtca	ccctggcagc	cctgggtggac	60
agctggctcc	gagaggactg	cccagggtc	aactacgcag	ccttggtcag	cggggcaggc	120
ccctcgcaagg	cggcgctgtg	ggccaaatcc	cctgggttac	tggcaggga	gcctttcttc	180
gatgccatat	ttaccctaact	caactgccaa	gtctcctggt	tcctccccga	gggatcgaag	240
ctggtgccgg	tggccagagt	ggccgaggtc	cggggccctg	cccactgcct	gctgctgggg	300
gaacgggtgg	ccctcaacac	gctggcccgc	tgcagtggca	ttgccagtgc	tgccgccgct	360
gcagtggagg	ccgccagggg	ggccggctgg	actgggcacg	tggcaggcac	gaggaagacc	420
acgccaggct	tccggctggt	ggagaagtat	gggctcctgg	tgggcggggc	cgctcgcac	480
cgctacgacc	tgggagggct	ggtgatgttg	aaggataacc	atgtggtgcc	ccccggtggc	540
gtggagaagg	cggtgcgggc	ggccagacag	gcggctgact	tcgctctgaa	ggtggaagtg	600
gaatgcagca	gcctgcagga	ggtcgtccag	gcagctgagg	ctggcgccga	ccttgtcctg	660
ctggacaact	tcaagccaga	ggagctgcac	cccacggcca	ccgcgctgaa	ggcccagttc	720
ccgagtgtgg	ctgtggaagc	cagtgggggc	atcacccctg	acaacctccc	ccagttctgc	780
gggcccgcaca	tagacgtcat	ctccatgggg	atgetgaccc	aggcgggtccc	agcccttgat	840
ttctccctca	agctgtttgc	caaagaggtg	gctccagtgc	ccaaaatcca	ctag	894

## Homo sapiens mRNA for cytochrome P-450 HFLa, complete cds.

gtgatggatc	tcatcccaaa	cttggccgtg	gaaacctggc	ttctcctggc	tgtcagcctg	60
atactcctct	atctatatgg	aaccggtaca	catggacttt	ttaagaagct	tggaaattcca	120
gggcccacac	ctctgccttt	tttgggaaat	gctttgtcct	tccgtaaggg	ctattggacg	180
tttgacatgg	aatgttataa	aaagtataga	aaagtctggg	gtatttatga	ctgtcaacag	240
cctatgctgg	ctatcacaga	tcccgacatg	atcaaaacag	tgctagtga	agaatgttat	300
tctgtcttca	caaaccggag	gcctttcggg	ccagtgggat	ttatgaaaaa	tgccatctct	360
atagctgagg	atgaagaatg	gaagagaata	cgatcattgc	tgtctccaac	attcaccagc	420
ggaaaactca	aggagatgg	ccctatcatt	gccagtatg	gagatgtgtt	ggtgagaaat	480
ctgaggcggg	aagcagagac	aggcaagcct	gtcaccttga	aacacgtctt	tggggcctac	540
agcatggatg	tgatcactag	cacatcattt	ggagtgaagc	tgcactctct	caacaatcca	600
caagaccctt	ttgtggaaaa	caccaagaag	cttttaagat	ttaatccatt	agatccattc	660
gttctctcaa	taaaagtctt	tccattcctt	acccaattc	ttgaagcatt	aaatatcact	720
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attatcttta	tttttgctgg	ctatgaaacc	acgagcagtg	ttctctcctt	cattatatat	960
gaactggcca	ctcaccctga	tgtccagcag	aaagtgcaga	aggaaattga	tacagtttta	1020
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gatgttgaaa	tcaatgggat	gtttattccc	aaaggggtgg	tgggtgatgat	tccaagctat	1200
gttcttcatc	atgacccaaa	gtactggaca	gagcctgaga	agttcctccc	tgaaagggtc	1260
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cctcctgagc	tctgataaca	taattaacat	ttctcaataa	tttcaaccac	aatcattaat	1860
aaaaatagga	attattttga	tggctctaac	agtgacattt	atatcatgtg	ttatatctgt	1920
agtattctat	agtaagcttt	atattaagca	aatcaataaa	aacctcttta	c	1971



Human mRNA for endothelin converting enzyme, complete cds.

atgcggggcg tgtggccgcc cccggtgtcc gccctgctgt cggcgtggg gatgtcgacg	60
tacaagcggg ccacgctgga cgaggaggac ctggtggact cgctctccga ggcgcagcga	120
taccccaacg gcctgcaggt gaacttccac agccccgga gtggccagag gtgctgggct	180
gcacggaccc aggtggagaa gcggtggtg gtgttggtg tacttctggc ggcaggactg	240
gtggcctgct tggcagcact gggcatccag taccagacaa gatccccctc tgtgtgcctg	300
agcgaagctt gtgtctcagt gaccagctcc atcttgagct ccatggaccc cacagtggac	360
ccctgccatg acttcttcag ctacgcctgt gggggctgga tcaaggccaa cccagtccct	420
gatggccact cacgctgggg gaccttcagc aacctctggg aacacaacca agcaatcatc	480
aagcacctcc tcgaaaactc cacggccagg gtgacgagc cagagagaaa ggcgcaagta	540
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ttggccacc	2409

602386668F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4515521 5', mRNA

gcagaatgga	agcttagagg	aacttgctg	tgagcgctgg	tcttgtgttg	gtttgtgatg	60
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gttcctggag	ttaatttggt	ttacaggaat	ttgtttttta	aaaaaatagg	atcattctga	180
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aatctttaaa	acagacttga	tcacgcacac	acaataagtc	tttctctccg	aaaccggaag	360
taaatctata	tctgttagaa	ataatgtagc	caaaagaatg	taaatttgag	gattttttgc	420
caatagttaa	tagaaaatat	atgaaccaa	gtgatttgag	tttgtaaaaa	tgtaaaatag	480
tatgaacaaa	atttgcactc	taccagattt	gaacatctag	tgagggtcac	attcatacta	540
agttttcaac	attgtgttct	tttggcattc	attttttact	tttattaaag	gttcaaaacc	600
aaaaaagaaa	aaaag					615

## Homo sapiens mRNA for Rev-ErbAalpha protein (hRev gene)

ccgttgccctc	aacgtccaac	ccttctgcag	ggctgcagtc	cgccaccccc	aagaccttgc	60
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gcccaggggg	caacagcggc	gatcgcaacc	tctagtttga	gtcaagggtcc	agtttgaatg	180
accgctctca	gctggtgaag	acatgaccac	cctggactcc	aacaacaaca	caggtggcgt	240
catcacctac	attggctcca	gtggctcctc	ccaagccgc	accagccctg	aatccctcta	300
tagtgacaac	tccaatggca	gcttccagtc	cctgacccaa	ggctgtccca	cctacttccc	360
accatccccc	actggctccc	tcacccaaga	cccggctcgc	tcctttggga	gcattccacc	420
cagcctgagt	gatgacggct	ccccttcttc	ctcatcttcc	tcgtcgtcat	cctcctcctc	480
cttctataat	gggagccccc	ctgggagtct	acaagtggcc	atggaggaca	gcagccgagt	540
gtcccccagc	aagagcacca	gcaacatcac	caagctgaat	ggcatggtgt	tactgtgtaa	600
agtgtgtggg	gacgttgcc	cgggcttcca	ctacggtgtg	ctcgctgcg	agggctgcaa	660
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aaaaaaaaaa	aaaag					2355

## Homo sapiens insulin induced protein 1 (INSIG1) gene, complete cds.

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catttaatgg	catagaccat	accagacctc	at ttgcaagt	attgggtctt	caaacttcaa	11700
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aaa						12003

yy35b09.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273209 3',  
mRNA sequence.

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ttgcactgag tttcagcaga gattaaacat tttatat                                     457
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## Homo sapiens tumor rejection antigen (gp96) 1, mRNA (cDNA clone

gaggatccga	accaggggt	ggggggtgga	ggcggtcct	gcgatcgaag	gggacttgag	60
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taaaatcttg	tcatgtgtat	aaaaataaaa	aagatcccaa	ataaaaaaaa	aaaaaaaaaa	1380
a						1381

Homo sapiens tumor suppressor deleted in oral cancer-related 1, mRNA (cDNA clone MGC:3779 IMAGE:3659410), complete cds.

gcgcgcaagg	caccggtggc	agcggcgacg	gcagctgcga	cagcaacccc	tgctggggccg	60
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aaaaaaaaaa	aaaaaaaa					1397

Homo sapiens TNFR-related death receptor-6 (DR6) mRNA, complete cds.

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gccacagcca	cgatgatcgc	gggtccctt	ctcctgcttg	gattcccttag	caccaccaca	120
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gctgaggaca	aactagaccg	gctattcgaa	attattggag	tcaagagcca	ggaagccagc	1920
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601848574F1. NIH\_MGC\_55 Homo sapiens cDNA clone IMAGE:4079202 5', mRNA sequence.

acaatggtat	agatttcaca	acacaaaaag	gacattgggtg	gatgttactg	cacatttttaa	60
attcttaaca	ctaatttatc	tgtataagtg	tttatatgca	tattttggga	cataaacagt	120
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gcaaaaatat	taactttaat	gaaccattgc	ttggacatga	tttcctatac	attaccattg	660
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Homo sapiens clone. PP1722 unknown mRNA.

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Homo sapiens hypothetical protein FLJ11259, mRNA (cDNA clone MGC:8787.  
IMAGE:3925141), complete cds.

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tgggcaacag	agtgaagccc	tgtctcaaaa	ataataaat	aaataaatga	ataaagagaa	2340
tgctaatacca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2388

tq65c10.x1 NCI\_CGAP\_Lu19 Homo sapiens cDNA clone IMAGE:2213682 3' similar  
to SW:ENPL\_HUMAN P14625 ENDOPLASMIN PRECURSOR ;, mRNA sequence.

```

ttttttttcc tctactgcag cttcatcatc agattcttct ttctcttctt tggtctgttc      60
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gtttatgaac tgtgaatatt tttttgacga gatttttaat tgtatccaat tcaaggtaat      180
cagatgcttc ttcttttaag acaagggtaa ttgtcggtcc ccgtccctaga gtgtttcctc      240
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tctcaccccn c                                     1151

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Homo sapiens phosphoserine aminotransferase (PSA) mRNA, complete cds.

```

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```

Homo sapiens cDNA clone:ADBAPE04, 5'end, expressed in human adrenal gland.

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wd68f02.x1 NCI\_CGAP\_Lu24 Homo sapiens cDNA clone IMAGE:2336763 3', mRNA  
sequence.

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H.sapiens LU gene for Lutheran blood group glycoprotein.

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tc						2402

Homo sapiens mRNA for calmegin, complete cds.

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tagaagggca	agaagaaaag	aatcaatcaa	ataagtctgg	gtcagaggat	gagatgaaag	1860
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aaaaatcagc	atgccagacc	tgaactttaa	tcagtctgca	catcctgttt	ctaataatcta	2040
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tccacttaaa	tggctataca	acaatataac	tggtagttct	ataataaaaa	tgagcatatg	2340
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gatgtacaga	ttttttttca	agttttttata	gttgctttat	gccagagtgg	tttaccctat	2640
tcacaaaatt	tcttatgcat	acattgctat	tgaaaataaa	atttaaatat	tttttcatcc	2700
tgaaaaaaa						2710

wx78h04.x1 NCI\_CGAP\_Ov38 Homo sapiens cDNA clone IMAGE:2549815 3', mRNA sequence.

agcaatttga	atcatttctt	gaaaaacaaa	cacagacaaa	caccaaacat	ggagttggtg	60
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gctgcccgcg	cccgcagggg	acatcgggga	aatgggggca	gagtgcggga	cccacacgct	300
gcctgaggag	tcttggcagg	gtggacaggc	ctgggggtct	ctaccagcaa	tgcaataaat	360
atgcaaatcc	aagcacagaa	agaccaagcg	cagacccac	gggcgcacga	ggcccagccc	420
agttcctgcg	ggcacgggca	ccaccggctc	ttcacagacc	aggagt		466

## Human CD9 antigen mRNA, complete cds.

cgcgcccccc	agtcgccac	ccgttcggcc	caggctaagt	tagccctcac	catgccggtc	60
aaaggaggca	ccaagtgc	caaatacctg	ctgttcggat	ttaacttcat	cttctggctt	120
gcggggattg	ctgtccttgc	cattggacta	tggctccgat	tcgactctca	gaccaagagc	180
atcttcgagc	aagaaactaa	taataataat	tccagcttct	acacaggagt	ctatattctg	240
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gagtccag	gcatgctggg	actgttcttc	ggcttcctct	tggatgatatt	cgccattgaa	360
atagctgcgg	ccatctgggg	atattcccac	aaggatgagg	tgattaagga	agtcaggag	420
ttttacaagg	acacctacaa	caagctgaaa	accaaggatg	agccccagcg	ggaaacgctg	480
aaagccatcc	actatgcgtt	gaactgctgt	ggtttggctg	ggggcggtgga	acagtttatc	540
tcagacatct	gccccaaagaa	ggacgtactc	gaaaccttca	ccgtgaagtc	ctgtcctgat	600
gccatcaaag	aggctcttca	caataaatcc	cacatcatcg	gcgcagtg	catcggcatt	660
gccgtggtca	tgatatttgg	catgatcttc	agtatgatct	tgtgctgtgc	tatccgcagg	720
aaccgcgaga	tggcttagag	tcagcttaca	tccctgagca	ggaaagtta	cccatgaaga	780
ttgggtgggat	tttttgtttg	tttgtttgt	tttgtttgtt	gtttgtttgtt	tggtttttttg	840
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tctttta	atgcttca	tattgacatt	tgtagttgag	cgggggggtt	gggtttgctt	960
gtttat	atgtt	gtttttgct	tggttatatta	agcagaaatc	ctgcaatgaa	1020
aggtag	tata	tttgcagac	tctagacaag	atattgtaca	taaaagaatt	1080
taaatag	ata	caaatgtcta	tcaacttta	tcaagttgta	acttatattg	1140
gatacata	at	aaaaaattat	gacaatgaaa	aaaaaaaaa	aaaaaaaaa	1192

Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,

gtagccttta	tttacttaaa	catttatattg	cttctaggaa	ataagcgctt	tcctaatttc	60
aagcaattat	aaaagaactg	ctgttttctt	ccacactcac	ttgccagagg	gtcgaattgg	120
aagtacacata	tatgtctatg	aacggaagtt	aaaaggga	ttcaacatga	agatgaaatt	180
ctgaactttc	ctagataaat	taacattgct	gggtggaaat	attcagatgc	tgcttaata	240
cttcggtaaa	cactgggtaa	gattcatgga	acttagaaaa	aagctgtatg	aactgcttta	300
ccaaatatca	ctactgagga	aatgtataaa	ataccacata	gtataaaatt	acatgttaat	360
ccaatgccag	attttaaata	aaggacctta	agttttctc	aagggggaag	tttaatgggt	420
cnttcccgt	ntcanagggc	caaaaanttc	ccaaggaaac	caggtagnaa	gctcttnaaa	480
ggccgcaaaa	t					491

Homo sapiens 7-dehydrocholesterol reductase, mRNA (cDNA clone MGC:1760 IMAGE:3507516), complete cds.

gtggagcagc	gcgcgcaagc	gaggccaggg	gaaggtgggc	gcaggacttt	agccgggtga	60
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gaaggaanaa	ttcccttctg	ctgtgaaact	atctggcaag	aggctggagg	gcccattggc	180
tgcaaaatcg	caacccaaca	ttcccaaagc	caagagtcta	gatggcgtca	ccaatgacag	240
aaccgcactc	caagggcagt	ggggccgtgc	ctgggagggtg	gactggtttt	cactggcgag	300
cgatcatctt	ctactgctgt	tcgccccctt	catcgtctac	tacttcatca	tggtttgtga	360
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ctcggacatc	tgggccaaga	ctccaccctat	aacgaggaaa	gccgccagc	tctatacctt	480
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accgggttac	gtaggaggca	tccaggaggg	ggccgtgact	cctgcagggg	ttgtgaacaa	600
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tcatctctct	tcctggttct	cgccaccctat	catctctcgac	aactggatcc	cactgctgtg	720
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ccccaccagc	gccagagact	gcaaatccac	aggcaatttc	ttttacaact	acatgatggg	840
catcgagttt	aaccctcgga	tcgggaagtg	gtttgacttc	aagctgttct	tcaatgggag	900
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aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaa			2614

Homo sapiens squalene epoxidase (ERG1) mRNA, complete cds.

ctggctctgat	eggacttctc	gtcctgggac	acagtttact	ggagtctggc	cggtctctccg	60
tgctcctctt	ggtacctcat	tttggggaga	accttaaac	cactegagca	gataatctcc	120
gccttgaccg	gtgccaccaa	agaagccttg	gaaccatgtg	gacttttctg	ggcattgcca	180
ctttcaccta	ttttataag	aagttcgggg	acttcatcac	tttggccaac	agggaggtcc	240
tggtgtgcgt	gctgggtgtc	ctctcgtctg	gcctgtgtgt	ctcctaccgc	tgctcgccacc	300
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Homo sapiens keratin 23 (histone deacetylase inducible), transcript variant 1, mRNA (cDNA clone MGC:26158 IMAGE:4838347), complete cds.

agggggaaat	cctgagcgca	ggccagggtt	gtttggtttt	gaggtgtgct	gggatgaaag	60
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cttaatatat	tgacttttc	taatcaaagt	gcgagtttat	gagggtaaag	ctctactttc	1920
ctactgcagc	cttcagattc	tcacatcttt	gcacatctatt	tgtagccaat	aaaactccgc	1980
actagcaaaa	aaaaaaaaaa	aa				2002



Homo sapiens translocon-associated protein gamma subunit mRNA, complete cds.

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attattttta aaaaactttt cttgaactcc tggccaacat ggtgaaaccc cgtctctact      2220
aaaaatacca aaattagcca ggcgtgatgg tgggtgcctg taatctcagc tacttgggag      2280
gctgaagcag gagaactgcc tgaaccagg aggcagaggt tgcagtgaat cgagatcgtg      2340
ctactactgc ctgggtggca agggtgagac tccatctcaa aaaagaaaca aaaaaaccca      2400
aaaagttttc tttactgttg gttaaaaaaa aaagccagac catagtttga ctggtggcat      2460
ggaatttggg tatcaaataa atgcatttgc ttatttgaca aaccatcagt gtccactatt      2520
tgttaccaga gttggggcac tatcttttaa aattgctggg gaaaacttgc cactagatgg      2580
agtgtgttat agatggggaa aaaattgcca ccattcttgg tataatacag tgtagcttag      2640
atgaggtggg gaaatagggg tatcagccga atattcctaa tatagtttct cttgaattaa      2700
taactgaag atttgtagga aaatgagtga gcaaaatttg tttactgttg tgaatttttc      2760
ctacagcact gtttttaaatc ttggtgtttt ccaactttct gtactaatag atacatttct      2820
gtgcataaga ttataaagca tatactcaca gttcagtagt tttcgttaag gatttactgt      2880
gtgagtactt tactgtgagg aattgcagaa ccttttcccc tctactcttg tctaaaagtt      2940
ctgtgtggca cacagagatg cgacctactc aatctgactt agtaaaacca tgctgtgaa      3000
tttttgtctt aaaaagacca cataccaggc acccatgaaa taaaagattc atctgtaaaa      3060
a

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Homo sapiens malic enzyme 1, NADP(+)-dependent, cytosolic, mRNA (cDNA clone MGC:39115 IMAGE:4870714), complete cds.

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gtcaccacag cagcatccgc cgcctgcacc ggcggtgcgg cccgccccgg cctgacccccg      60
ccgccgaacc cggcgccagc catggagccc gaagcccccc gtcgccgcca caccatcag      120
cgcggtacc tgcgtgacac gaacctcac ctcaacaagg acttggcctt taccctggaa      180
gagagacagc aattgaacat tcatggattg ttgccacctt ccttcaacag tcaggagatc      240
caggttctta gagtagtaaa aaatttcgag catctgaact ctgactttga caggatatctt      300
ctcttaatgg atctccaaga tagaaatgaa aaactctttt atagagtgtg gacatctgac      360
attgagaaat tcatgcctat tgtttatact cccactgtgg gtctggcttg ccaacaatat      420
agtttgggtg ttcggaagcc aagaggtctc tttattacta tccacgatcg agggcatatt      480
gcttcagttc tcaatgcatg gccagaagat gtcatcaagg ccatttgtgt gactgatgga      540
gagcgatttc ttggcttggg agaccttggc tgtaatggaa tgggcatccc tgtgggtaaa      600
ttggctctat atacagcttg cggagggatg aatcctcaag aatgtctgcc tgcattcttg      660
gatgtgggaa ccgaaaatga ggagttactt aaagatccac tctacattgg actacggcag      720
agaagagtaa gaggttctga atatgatgat tttttggacg aattcatgga ggcagttctt      780
tccaagtatg gcatgaattg cettattcag tttgaagatt ttgccaatgt gaatgcattt      840
cgtctcctga acaagtatcg aaaccagtat tgcacattca atgatgatat tcaaggaaca      900
gcctctgttg cagttgcagg tctccttgca gctcttcgaa taaccaagaa caaactgtct      960
gatcaaacia tactattcca aggagctgga gaggtgccc tagggattgc acacctgatt      1020
gtgatggcct tggaaaaaga aggtttacca aaagagaaag ccatcaaaaa gatatggctg      1080
gttgattcaa aaggattaat agttaaggga cgtgcttctt taacacaaga gaaagagaag      1140
tttgcccatg aacatgaaga aatgaagaac ctagaagcca ttgttcaaga aataaaaacca      1200
actgccttca taggagttgc tgcaatttgt ggtgcattct cagaacaaat tctcaaagat      1260
atggctgcct tcaatgaacg gcctattatt tttgctttga gtaatccaac tagcaaagca      1320
gaatgttctg cagagcagtg ctacaaaata accaaggagc gtgcaatttt tgccagtggc      1380
agtccttttg atccagtcac tcttccaaat ggacagacct tatatcctgg ccaaggcaac      1440
aattcctatg tgttccttgg agttgctctt ggtgtgtgtg cgtgtggatt gaggcagatc      1500
acagataata ttttcctcac tactgctgag gttatagctc agcaagtgtc agataaacac      1560
ttggaagagg gtcggcttta tctccttttg aataaccatta gagatgtttc tctgaaaatt      1620
gcagaaaaga ttgtgaaaga tgcataccaa gaaaagacag ccacagttta tctgaaccg      1680
caaaacaaag aagcatttgt ccgctcccag atgtatagta ctgattatga ccagattcta      1740
cctgattgtt attcttggcc tgaagaggtg cagaaaatac agaccaaagt tgaccagtag      1800
gataatagca aacatttcta actctattaa tgaggtcttt aaacctttca taatttttaa      1860
aggttggaaat cttttataat gattcataag acacttagat taagatttta ctttaacagt      1920
ctaaaaattg atagaagaat atcgatataa attgggataa acatcacatg agacaaaaaa      1980
aaaaaaaaaa aa

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Homo sapiens livin inhibitor-of-apoptosis (LIVIN) mRNA, complete cds.

ccctgggata	ctccccctccc	agggtgtctg	gtggcaggcc	tgtgcctatc	cctgctgtcc	60
ccagggtggg	ccccgggggt	caggagctcc	agaaggcca	gctgggcata	ttctgagatt	120
ggccatcagc	ccccatttct	gctgcaaacc	tggtcagagc	cagtgttccc	tccatgggac	180
ctaaagacag	tgccaagtgc	ctgcaccgtg	gaccacagcc	gagccactgg	gcagccgggtg	240
atgggtccac	gcaggagcgc	tgtggacccc	gctctctggg	cagccctgtc	ctaggcctgg	300
acacctgcag	agcctgggac	cacgtggatg	ggcagatcct	gggccagctg	cggcccctga	360
cagaggagga	agaggaggag	ggcgccgggg	ccaccttgtc	cagggggcct	gccttccccg	420
gcatgggctc	tgaggagtgtg	cgtctggcct	ccttctatga	ctggccgctg	actgctgagg	480
tgccacccga	gctgctggct	gctgccggct	tcttccacac	aggccatcag	gacaaggatga	540
ggtgcttctt	ctgctatggg	ggcctgcaga	gctggaagcg	cggggacgac	ccctggacgg	600
agcatgccaa	gtggttcccc	agctgtcagt	tctgtctccg	gtcaaaagga	agagactttg	660
tccacagtgt	gcaggagact	cactcccagc	tgctgggctc	ctgggaccgg	tgggaagaac	720
cggaagacgc	agcccctgtg	gccccctccg	tccctgcctc	tgggtaccct	gagctgcccc	780
caccagagg	agaggtccag	tctgaaagt	cccaggagcc	aggagccagg	gatgtggagg	840
cgcagctgcg	gcggctgcag	gaggagagga	cgtgcaaggt	gtgcctggac	cgcgccgtgt	900
ccatcgtctt	tgtgccgtgc	ggccacctgg	tctgtgctga	gtgtgcccc	ggcctgcagc	960
tgtgccccat	ctgcagagcc	cccgtccgca	gccgcgtgcg	caccttccctg	tccataggcca	1020
ggtgcatgg	ccggccagg	gggctgcaga	gtgggtccc	tgcccctctc	tgcctgttct	1080
ggactgtgtt	ctgggcctgc	tgaggatggc	agagctggtg	tccatccagc	actgaccagc	1140
cctgattccc	cgaccacgc	ccagggtgga	gaaggaggcc	cttgcttggc	gtgggggatg	1200
gcttaactgt	acctgtttgg	atgcttctga	atagaaataa	agtgggtttt	ccctggaggt	1260

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517  
IMAGE:3356428), complete cds.

```

cogaggcggc ggaggcgact cctcttttcc ctccctcttc ctccgtccgc ccgtccgtcc      60
gcggtctctgt ccgttcggcc cgggtccggcc cgaagcatgg ccggcgtcag cttcagcggc      120
caccgcctgg agctgctggc ggcttacgag gaggtgatcc gagaggagag cgcggccgac      180
tggtgctctgt acacatatga agatggctcc gatgacctca agcttgacgc atcaggagaa      240
gggggcttgc aggagctttc gggacacttt gagaaccaga aggtgatgta cggcttctgc      300
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gatgtgcctg atgcccgcaa gtgcgcttgt gccagccacg tggctaaggt ggcagagttc      420
ttccagggtg tcgacgtgat cgtgaacgcc agcagcgtgg aagacataga cgcgggtgcc      480
atcgggcagc ggctctctaa cgggctggcg cgactctcca gccctgtgct gcaccgactg      540
cggctgcgag aggatgagaa cgcagagccc gtgggcacca cctaccagaa gacggatgca      600
gctgtggaag tgaagcggat taaccgagag cagttctggg agcaggccaa gaaggaagaa      660
gagctgcgga aggaggagga gcggaagaag gccctggatg agaggctcag gttcgagcag      720
gagcggatgg agcaggagcg gcaggagcaa gaggagcgcg agcggcgcta ccgggagcgg      780
gagcagcaga tcgaggagca caggaggaaa cagcagactt tagaagcgga agaggccaag      840
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gcgcccactc ccatccccac gggagcccg tctgactcca gcaccgctc caccctgtc      1140
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ctggagcaag agcaggagcc ggagccccac ctgctaacca atggcgagac caccagaaag      1860
gaggggaccc aggccagtga ggggtacttc agtcaatcac aggaggagga gtttgccaa      1920
tcggaagagc tctgtgcaa ggtccgcct cctgtgttct acaacaagcc tccagagatc      1980
gacatcacat gctgggatgc agaccagtt ccagaagagg aggagggctt cgaggggtgt      2040
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atatcacttt gtattctctg tccagggttt cagatatatt gcacgaattt taaaacatgg      2520
caataaatgg ctcggtgggt ctggcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      2580
aaaaaaaaaa aaa

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Homo sapiens MDS019 (MDS019) mRNA, complete cds.

ctgccagggg	gagggcccca	gagaaaacca	gaaagagggt	gagagactga	ggaagataaa	60
gcgtcccagg	gcctcctaca	ccagcgcctg	agcaggaagc	gggagggggc	atgactacga	120
ggccctggga	ggtcacttta	gggagggctg	tcctaaaacc	agaagcttgg	agcagaaagt	180
gaaaccctgg	tgctccagac	aaagatctta	gtcgggacta	gccggccaag	gatgaagcct	240
cacttcagaa	acacagtgga	gcgaatgtat	cgagacacat	tctcctacaa	cttttataat	300
agacccatcc	tttctcgtcg	gaataccgtc	tggctgtgct	acgaagtga	aacaaagggt	360
ccctcaaggc	cccccttgga	cgcaaagatc	tttcgaggcc	agggtgattc	cgaacttaag	420
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caggagtatg	aggtcacctg	gtacatatcc	tggagccctc	gcacaaagt	tacaagggat	540
atggccacgt	tcctggccga	ggacccgaag	gttaccctga	ccatcttcgt	tggccgcctc	600
tactacttct	gggaccaga	ttaccaggag	gcgcttcgca	gcctgtgtca	gaaaagagac	660
ggtccgcgtg	ccaccatgaa	gatcatgaat	tatgacgaat	ttcagcactg	ttggagcaag	720
ttcgtgtaca	gccaaagaga	gctatttgag	ccttggaata	atctgcctaa	atattatata	780
ttactgcaca	tcattgctggg	ggagattctc	agacactcga	tggatccacc	cacattcact	840
ttcaacttta	acaatgaacc	ttgggtcaga	ggacggcatg	agacttacct	gtgttatgag	900
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tcctggagcc	cctgcttcag	ctgtgcccag	gaaatggcta	aattcatttc	aaaaaaciaa	1140
cacgtgagcc	tgtgcatctt	cactgcccgc	atctatgatg	atcaaggaag	atgtcaggag	1200
gggctgcgca	ccctggccga	ggctggggcc	aaaatttcaa	taatgacata	cagtgaattt	1260
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ctttgaatca	aaaatttatt	tatatattca	gaataaagta	ctaagattgt	gctcaatata	1620
cagaaaagtt	tcaaacctac	taatccagcg	acaatttgaa	tcggttttgt	aggtagagga	1680
ataaaatgaa	atactaaatc	tttctgtaaa	aaaaaaaa			1717

Human carnitine palmitoyltransferase I mRNA, nuclear gene encoding mitochondrial protein, complete cds.

ccgcgcaccc	atctgcccc	gtcctaggtg	ccgaccaacc	cccaggatgg	cggaagctca	60
ccaggccgtg	gccttccagt	tcacggtgac	cccagacggg	gtcgaacttc	ggctcagtcg	120
ggaggccctg	aaacacgtct	acctgtctgg	gatcaactcc	tggaagaaac	gcctgatccg	180
catcaagaat	ggcatcctca	ggggcgtgta	ccctggcagc	cccaccagct	ggctggtcgt	240
catcatggca	acagtgggtt	cctccttctg	caacgtggac	atctccttgg	ggctggtcag	300
ttgcatccag	agatgcctcc	ctcaggggtg	tggcccttac	cagaccccgc	agacccgggc	360
acttctcagc	atggccatct	tctccaacgg	cgtctgggtg	acgggcatct	tcttcttcog	420
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gctctacagc	ttccagacat	ctctgcccac	gcttctctgt	cccaggggtg	cagccacaat	600
tcagcgggtac	ctagagtctg	tgcgcccctt	gttggatgat	gaggaatatt	accgcatgga	660
gttgctggcc	aaagaattcc	aggacaagac	tgcgccaggg	ctgcagaaat	acctggtgct	720
caagtcatgg	tgggcaagta	actatgtgag	tgactgggtg	gaagagtaca	tctaccttcg	780
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gaataacagc	gtgcaggcag	cccgcctggg	aaacatcatc	cacgccatga	tcagtgtatc	900
ccgtaaactg	gaccgtgaag	aaatcaagcc	tgtgatggca	ctgggcatag	tgcctatgtg	960
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caccagccag	atccccaat	cccagatccg	catgttcgac	ccagagcagc	accccaatca	2160
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gaacgcccag	cgctttggaa	accacatccg	caaagccctg	ctggacattg	ctgatctttt	2340
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gaggccctcc	ccctcccca	gctcagacca	cagaggtggc	aagagaaggg	ctgaagctgg	2460
aagactgttc	atgagggaat	tgtgtgacct	gctttgaaat	gtgtgactct	gctgagtga	2520
gtaggctctg	agatagctgt	ccacgcccac	gtgtttgctt	ggaataaata	cttgcc	2576

Homo sapiens prostate differentiation factor mRNA, complete cds.

agcgtttaaa	cttaagcttg	gagttatttc	caccatgcc	gggcaagaac	tcaggacgct	60
gaatggctct	cagatgctcc	tggtgttget	ggtgctctcg	tggtgcccgc	atgggggccc	120
cctgtctctg	gccgaggcga	gccgcgcaag	tttcccggga	ccctcagagt	tgactccga	180
agactccaga	ttccgagagt	tgcggaacg	ctacaggac	ctgctaacca	ggctgcgggc	240
caaccagagc	tgggaagatt	cgaacaccga	cctcgtccc	gcccctgcag	tccggatact	300
cacgccagaa	gtgcggctgg	gatccggcgg	ccacctgcac	ctgcgtatct	ctcgggcccgc	360
ccttcctgag	gggtcccgcg	aggcctccc	ccttcaccgg	gctctgttcc	ggctgtcccc	420
gacggcgtca	aggctgtggg	acgtgacacg	accgctgcgg	cgtcagctca	gccttgcaag	480
acccagggcg	ccgcgctgc	acctgcgact	gtcgccgcgg	ccgtcgagct	cggaccaact	540
gctggcagaa	tcttcgtccg	cacggcccca	gctggagttg	cacttgccgc	cgaagccgc	600
cagggggcgc	cgcagagcgc	gtgcgcgcaa	cggggaccac	tgtccgctcg	ggcccggggc	660
ttgctgccgt	ctgcacacgg	tccgcgcgtc	gctggaagac	ctgggctggg	ccgattgggt	720
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gccagcgccc	tgctgcgtgc	ccgccagcta	caatcccatg	gtgctcattc	aaaagaccga	900
caccggggtg	tcgtccaga	cctatgatga	cttgtagcc	aaagactgcc	actgcataatg	960
aactagtact	aagccgaatt	ctgcagatat	cc			992

## Homo sapiens amphiphysin II mRNA, complete cds.

```

ccgggcgagg cctgcgccgc gatggcagag atgggcagta aaggggtgac ggccgggaaag      60
atcgccagca acgtgcagaa gaagctcacc cgcgcgcagg agaaggttct ccagaagctg      120
gggaaggcag atgagaccaa ggatgagcag tttgagcagt gcgtccagaa tttcaacaag      180
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gccatgcacg aggttcccaa gaagctgaat gagtgtctgc aggaggtgta tgagcccgat      300
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602149641F1 NIH\_MGC\_81 Homo sapiens cDNA clone IMAGE:4290707 5', mRNA sequence.

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gcgcggggaa	cgccttggat	atgccaggtc	agaaaggggg	ctcgatatgg	gttgcccagt	720
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Human global transcription activator homologous sequence mRNA, complete cds.

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tb60a01.x1 NCI\_CGAP\_Br15 Homo sapiens cDNA clone IMAGE:2058696 3' similar  
to gb:M84739 CALRETICULIN PRECURSOR (HUMAN);, mRNA sequence.

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agatgagaac caggggtgag ggctgaagga gaatcaaaga taaaatacca gtttaaaaaa      120
aaaaaaaaa aaaaaaaagt cgtatcga                                     148
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tu04d02:x1 NCI\_CGAP\_Pr28 Homo sapiens cDNA clone IMAGE:2250051 3', mRNA  
sequence.

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acttaaaaca						550

Homo sapiens mRNA for KIAA0895 protein, partial cds.

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Homo sapiens NUCB2 protein (NUCB2) mRNA, complete cds.

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aatggaagaa	gaaaggctta	gaatgagggga	acatgtaatg	aatgagggtg	atactaacaa	1140
agacagattg	gtgactctgg	aggagttttt	gaaagccaca	gaaaaaaaag	aattcttggga	1200
gccagatagc	tggaagacat	tagatcagca	acagttcttc	acagaggaag	aactaaaaga	1260
atatgaaaat	attattgctt	tacaagaaaa	tgaacttaag	aagaaggcag	atgagcttca	1320
gaaacaaaaa	gaagagctac	aacgtcagca	tgatcaactg	gaggctcaga	agctggaata	1380
tcacaggtc	atacagcaga	tggaacaaaa	aaaattacaa	ggaattcctc	catcagggcc	1440
agctggagaa	ttgaagtttg	agccacacat	ttaaagtctg	aagtccacca	gaacttggaa	1500
gaaa						

Homo sapiens glucose-6-phosphate dehydrogenase, mRNA (cDNA clone MGC:8534 IMAGE:2822640), complete cds.

cacttcgggg	ctgagagcgc	ggagggcgac	gacgacgaag	cgcagacagc	gtcatggcag	60
agcaggtggc	cctgagccgg	acccaggtgt	gcgggatcct	gcgggaagag	-cttttccagg	120
gcgatgcctt	ccatcagtcg	gatacacaca	tattcatcat	catgggtgca	tccgggtgacc	180
tgccaagaa	gaagatctac	cccaccatct	ggtggctgtt	ccgggatggc	cttctgcccc	240
aaaacacctt	catcgtgggc	tatgcccgtt	cccgcctcac	agtggctgac	atccgcaaac	300
agagtggacc	cttcttcaag	gccaccccag	aggagaagct	caagctggag	gacttctttg	360
cccgaactc	ctatgtggct	ggccagtacg	atggatgcagc	ctcctaccag	cgcctcaaca	420
gccacatgaa	tgcctccac	ctggggctcac	aggccaaccc	cctcttctac	ctggccttgc	480
ccccgaccgt	ctacgagcc	gtaccaaga	acattcacga	gtcctgcatg	agccagatag	540
gctggaaccg	catcatcgtg	gagaagccct	tccggaggga	cctgcagagc	tctgaccggc	600
tgtccaacca	catctcctcc	ctgttccgtg	aggaccagat	ctaccgcac	gaccactacc	660
tggaagga	gatggtgcag	aacctcatgg	tgtgagatt	tccaacagg	atcttcggcc	720
ccatctggaa	cggggacaac	atcgcctgcg	ttatcctcac	cttcaaggag	ccctttggca	780
ctgagggtcg	cgggggctat	ttcgatgaat	ttgggatcat	cggggacgtg	atgcagaacc	840
acctactgca	gatgctgtgt	ctgggtggcca	tggagaagcc	cgcctccacc	aactcagatg	900
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tggtcctggg	ccagtacgtg	gggaaccccg	atggagaggg	cgaggccacc	aaaggggtacc	1020
tggaagacc	cacggtgccc	cgcgggtcca	ccaccgccac	ttttgcagcc	gtcgtcctct	1080
atgtggagaa	tgagaggtgg	gatgggggtgc	ccttcacctc	gcgctgcggc	aagggccctga	1140
acgagcgcaa	ggccgaggtg	aggctgcagt	tccatgatgt	ggccggcgac	atcttcacc	1200
agcagtgcaa	gcgcaacgag	ctgggtgatcc	gcgtgcagcc	caacgaggcc	gtgtacacca	1260
agatgatgac	caagaagccg	ggcatgttct	tcaaccccca	ggagtccgag	ctggacctga	1320
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gtattttcac	cccactgctg	caccagattg	agctggagaa	gccaagccc	atcccctata	1500
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cccacgtgag	agaatctgcc	tgtggccttg	cccgccagcc	tcagtgccac	ttgacattcc	2040
ttgtcaccag	caacatctcg	agccccctgg	atgtcccctg	tcccaccaac	tctgcactcc	2100
atggccaccc	cgtgccaccc	gtaggcagcc	tctctgctat	aagaaaagca	gacgcagcag	2160
ctgggacccc	tcccaacctc	aatgccctgc	cattaaatcc	gcaaacagcc	aaaaaaaaaa	2220
aaaaaaaaaa						2230



## Homo sapiens zinc finger protein 165 (Zpf165) mRNA, complete cds.

ggccccggat	ccgcgcgggt	ttggggatcc	anatgtccag	ccccgtgtcc	ccctccaaac	60
atccagtcct	tctcatattg	cctttgaaat	tagcagcctc	tgggtgacca	gaccttggcc	120
ctcagaggaa	tcccgganaa	aggtanaacc	agcttcgcgt	tgggaacgca	ggcgcgctta	180
cgcatttagt	gagggttttg	cgtctccat	anttaccgcc	gccgcgcgtg	acntcatant	240
ggagcgcgtg	gggcttggtg	gcgtgggggtg	ggggctgtcc	tactgatcct	gaattttgggt	300
cactggtaan	angagttgcc	cattccancc	aggtggaacg	gggaggggta	gccacatgtc	360
tcagatctgc	cattgtctgc	gaaaagaaac	tgctgcgagg	accatcccca	atccccctgt	420
tcccttgga	agagtaaccg	ccgttttgta	ggacacttgg	ggacaacccc	gcttgcctg	480
aaattttattg	acacggtaaa	tagtatttcc	tgtgtgccga	ggatgcagtt	aaaccaacac	540
tgacccccctg	cccttgagaa	acacaagatg	gctacagaac	caaagaaagc	tcgagcccag	600
aactctccag	aggatgaagg	acttctgata	gtgaagatag	aagaggaaga	atttatccat	660
gggcaggaca	cttgcttaca	gagaagtga	ctccttaagc	aggagctctg	caggcagctt	720
tttaggcagt	tctgctacca	ggattctcct	ggacctcgcg	aggcactgag	ccgcctccgg	780
gagctctgtg	gtcagtggtg	gaagccagag	atccatacca	aggaacagat	tctggaactg	840
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cattacccag	agagtggaga	ggaggcagtg	accatactag	aagatttggg	gagaggcact	960
gatgaagcag	tactccaggt	tcaagcccat	gaacatggac	aagaaatatt	ccagaaaaaa	1020
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tttgattcat	cagaacccca	gctcctatgg	gactgtgata	atgagagtga	aaacagtaga	1140
tccatgccaa	agctggaaat	ttttgaaaaa	attgaatcac	agagaattat	atctggaaga	1200
atctcaggat	acatatcaga	agcatctggt	gagtctcaag	acatctgtaa	gtctgcaggc	1260
agggtaaaga	gacaatggga	aaaagaatca	ggggagtctc	agagactctc	gtctgcccag	1320
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gctaacaatg	cagcagtttt	cagtggagat	aaaactcatc	agtgtaatga	atgtgggaaa	1620
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cgaattcaca	ctggggaaaag	accctttggt	tgcaaagaat	gtgggagagc	attcaacctg	1800
aactcacatc	ttatcaggca	tcagagaatt	cacaccagag	agaaacccta	cgagtgtagt	1860
gaatgtggga	aaaccttccg	agtgaagtca	catcttatte	gacactttag	aattcacact	1920
ggagaaaaac	cctatgaatg	cagtgaagtgt	ggaagagcct	tcagtcagag	ctcaaacctt	1980
agtcaaacacc	agagaattca	catgagggaa	aacctattaa	tgtaagggaac	ttaaatttgt	2040
aagtaaatgc	tgaggaaatg	gcacaatatg	aaaaatatta	aataaaaaat	aaatattggg	2100
caagtgggaag	actgaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2150

602326096F1 NIH\_MGC\_90 Homo sapiens cDNA clone IMAGE:4414319 5', Mrna

tatctgttca	atgaaaataa	ggtatgaccc	aagtttttac	ctagtctgac	tagaagtatt	60
ccaacttcaag	gtctgaagta	ggactttttac	cttaaaaaaac	aacaacaaac	aaaactatca	120
cacaggatag	ataagaagat	tgggttaaaca	gttttgtgta	gatctttttg	gtgctgaact	180
atgacatgag	ccttatagat	tgtaaaatag	ggatagttgg	aactaatgta	cagaactaaa	240
ttttttaaac	tttatttgct	gttaaattct	gtgaagtttc	agttatctaa	aataaatata	300
cacaaatatg	aaatataatg	tttcagattg	caaggtaata	tgtaatagta	gtgtttgtaa	360
gatactcttg	tctaataatta	actagtagta	ttttgatttg	tacagtcata	atttgtaaaa	420
atgacttcat	ttaacattca	ctgatgtaga	ttaataatgt	aagttctgat	ttaaagaatg	480
gtggcaaaat	ggtgcatgta	atacttttgc	aagtgttggg	gagatcggta	tgttttgaaa	540
agagtaattt	aacttttggg	tgccaggaaa	tgggttttct	caaagtccat	tgccggcaat	600
gggcaggcct	gcaaatactg	gcacagagca	ttatcataca	ccttattaac	ggtgaggggtg	660
aatacctttg	aaataaaagt	ttagagaaat	gtttcagaaa	aaaaaatata	atacatgtag	720
atacgagaca	aaaaaaaaaa	aaaatgaaaa	aaaataaaaa	aaaaagagag	ggggacagat	780
atatattcag	gggagagaaa	aaagacagat	tatagaaagg	cccaaaataa	aaaaagaaga	840
aggggtataa	atcggaaaaa	tgtgtgtaag	acaactgtgg	agaaaaac		887

## Human prostaglandin endoperoxide synthase mRNA, complete cds.

gogccatgag	ccggagtcct	ttgctccggg	tcttgctggt	cctgctcctg	ctcccgccgc	60
tcccgcct	gctcgcgac	ccaggggcgc	ccacgccagt	gaatccctgt	tggtactatc	120
catgccagca	ccagggcatc	tgtgtccgct	tggccttga	ccgtaccag	tgtgactgca	180
cccgacggg	ctattccggc	cccaactgca	ccatccctgg	cctgtggacc	tggctccgga	240
attcactgcg	gcccagcccc	tctttcaccc	acttccctgct	cactcacggg	cgctgggtct	300
gggagtttgt	caatgccacc	ttcatccgag	agatgctcat	gcgctggta	ctcacagtgc	360
gtccaacct	tatccccagt	ccccccacct	acaactcagc	acatgactac	atcagctggg	420
agtctttctc	caacgtgagc	tattacactc	gtattctgcc	ctctgtgcct	aaagattgcc	480
ccacacccat	gggaaccaa	gggaagaagc	agttgccaga	tgccagctc	ctggcccgcc	540
gcttctgct	caggaggaag	ttcatacctg	acccccagg	caccaacctc	atgtttgcct	600
tctttgcaca	acacttcacc	caccagttct	tcaaaacttc	tggcaagatg	ggtcctggct	660
tcaccaaggc	cttgggccat	ggggtagacc	tggccacat	ttatggagac	aatctggagc	720
gtccgtatca	actgcggctc	tttaaggatg	ggaaactcaa	gtaccaggtg	ctggatggag	780
aaatgtaccc	gccctcggtg	gaagaggcgc	ctgtgttgat	gcactacccc	cgaggcatcc	840
cgcccagag	ccagatggct	gtgggcccagg	aggtgtttgg	gctgcttct	gggctcatgc	900
tgtatgccac	gctctggcta	cgtgagcaca	accgtgtgtg	tgacctgctg	aaggctgagc	960
accccacctg	gggcgatgag	cagcttttcc	agacgaccgc	cctcatcctc	ataggggaga	1020
ccatcaagat	tgtcatcgag	gagtacgtgc	agcagctgag	tggctatttc	ctgcagctga	1080
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tgcagccctt	caatgagtac	cgcaagaggt	ttggcatgaa	accctacacc	tccttcagg	1440
agctcgtagg	agagaaggag	atggcagcag	agttggagga	attgtatgga	gacattgatg	1500
cgttgaggat	ctaccctgga	ctgcttcttg	aaaagtcca	tccaaactct	atctttgggg	1560
agagtatgat	agagattggg	gctccctttt	ccctcaaggg	tctcctaggg	aatcccattc	1620
gttctccgga	gtactggaag	ccgagcacat	ttggcggcga	gggtgggcttt	aacattgtca	1680
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attcacgcca	ttggttgga	gctaccagag	ctctatcccc	atccaggtct	tgactcatgg	2520
cagctgtttc	tcatgaagct	aataaaaatc	gccc			2554

## Human mRNA for tyrosine hydroxylase type 3

tccacactga	gccatgcccc	ccccgcagcg	caccacgcca	caggccaagg	gcttccgcag	60
ggccgtgtct	gagctggacg	ccaagcaggc	agaggccatc	atgggcgccc	cggggcccag	120
cctcacaggc	tctccgtggc	ctggaactgc	agccccagct	gcattcctaca	ccccaccccc	180
aaggtccccg	cggttcattg	ggcgcaggca	gagcctcatc	gaggacgccc	gcaaggagcg	240
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ggctgtggcc	tttgaggaga	aggaggggaa	ggccgtgcta	aacctgctct	tctccccgag	360
ggccaccaag	acctcggcgc	tgtcccagcg	tgtgaagggtg	tttgagacgt	ttgaagccaa	420
aatccaccat	ctagagaccc	ggccccccca	gaggccgcga	gctggggggcc	cccacctgga	480
gtacttcgtg	cgctctgagg	tgcgcgagg	ggacctggcc	gcctgctca	gtggtgtgcg	540
ccaggtgtca	gaggacgtgc	gcagccccgc	ggggccccaa	gtccccctgg	tcccaagaaa	600
agtgtcagag	ctggacaagt	gtcatcacct	ggtcaccaag	ttcgacctg	acctggactt	660
ggaccacccg	ggcttctcgg	accaggtgta	ccgccagcgc	aggaagctga	ttgctgagat	720
cgcttccag	tacaggcacg	gcgaccgat	tcccgctgtg	gagtaacacc	ccgaggagat	780
tgcaccctgg	aaggaggtct	acaccacgct	gaagggcctc	tacgccacgc	acgcctgcgg	840
ggagcacctg	gaggcctttg	ctttgctgga	gcgcttcagc	ggctaccggg	aagacaatat	900
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agctgtgtgt	gcccgtggtg	aggttgtgct	gcctgtggtg	aggtcctgtc	ctggctccca	1800
gggtcctggg	ggctgctgca	ctgccctccg	cccttccctg	acactgtctg	ctgccccaat	1860
caccgtcaca	ataaaagaaa	ctgtggtctc	t			1891

## Homo sapiens mRNA; cDNA DKFZp566A093 (from clone DKFZp566A093); complete

agtctggggtt	ggactggcgg	ccgtggagtt	tgtgacatac	gaggtgacac	ccctcgagtc	60
acttcccttc	aactccagct	ggagcgcttg	cttggctttg	ggttcgttct	gcagccttcg	120
ccccgctcct	agcctcaggg	ccggactccg	gcgcagagcc	cagcccagcg	cagcctgcca	180
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cacaatttct	ccatctcctt	cttctcttct	ctgcttggag	gggatgtggg	ttccgttaag	360
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acatagaatg	gggttgagag	aagatcagtt	tgggcttcac	agtgtcattt	gaaaacgttt	1680
tttgttttgt	tttgaatta	ttgtggaaaa	ctttcaagtg	aacagaagga	tgggtgtccta	1740
ctgtggatga	gggatgaaca	aggggatggc	tttgcaccaa	tggagcctgg	gaggtgtgcc	1800
cagaaagctt	gtctgtagcg	ggttttgtga	gagtgaacac	tttccacttt	ttgacacctt	1860
atcctgatgt	atggttccag	gatttggatt	ttgattttcc	aaatgtagct	tgaaatttca	1920
ataaactttg	ctctgttttt	ctaaaaataa	aaaaaaaaaa	aaaaaaaa		1968

Homo sapiens mRNA for Id-1H, complete cds.

ttcagccagt	cgccaagaat	catgaaagtc	gccagtggca	gcaccgccac	cgccgccgcg	60
ggccccacgt	gcgcgctgaa	ggccggcaag	acagcgagcg	gtgcgggcga	ggtgggtgcgc	120
tgtctgtctg	agcagagcgt	ggccatctcg	cgctgccggg	gcgcgggggc	gcgcctgcct	180
gccctgctgg	acgagcagca	ggtaaacgtg	ctgctctacg	acatgaacgg	ctgttactca	240
cgcctcaagg	agctggtgcc	caccctgccc	cagaaccgca	aggtgagcaa	ggtggagatt	300
ctccagcacg	tcatcgacta	catcagggac	cttcagttgg	agctgaactc	ggaatccgaa	360
gttggaaccc	ccgggggccc	agggtgccg	gtccgggctc	cgctcagcac	cctcaacggc	420
gagatcagcg	ccctgacggc	cgaggcggca	tgcgtccctg	cggacgatcg	catcttgtgt	480
cgctgaaggc	cttccccagg	gaccggcgg				509

Homo sapiens mRNA for KIAA1254 protein, partial cds.

cattggcgcc	cgagctgtga	ccgccgccac	tggggcagcc	agcacaatcg	ggcggaggtg	60
gcgctgcccc	ttcagacctg	aaagatgtct	gaaaattcca	gtgacagtga	ttcatcttgt	120
ggttggaact	tcatcagtc	tgaggggtca	gatataaaaa	tggtgaattc	tgtgaccccc	180
actgacagct	gtgagccgc	cccagaatgt	tcatcttttag	agcaagagga	gcttcaagca	240
ttgcagatag	agcaaggaga	aagcagccaa	aatggcacag	tgcttatgga	agaaactgct	300
tatccagctt	tggaggaaac	cagctcaaca	attgaggcag	aggaacaaaa	gataccggaa	360
gacagtatct	atattggaac	tgccagtgat	gattctgata	ttgttaccct	tgagccacct	420
aagttagaag	aaattggaaa	tcaagaagtt	gtcattgttg	aagaagcaca	gagttcagaa	480
gactttaaca	tgggctcttc	ctctagcagc	cagtagtact	tctgtcagcc	agaaactgta	540
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cctgccttta	gacgacgccc	tgctaggaag	aagaccgttt	ctgcttcaga	atctgaagac	660
cggctagttg	gtgaacaaga	aactgaacct	tctaaggagt	tgagtaaacg	tcagttcagt	720
agtggtctca	ataagtgtgt	tatacttgct	ttggtgattg	caatcagcat	gggatttggc	780
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gatgaattga	atgatatgaa	ggattatctt	tcccagtgct	aacaggaaca	agaatctttt	900
atagattata	agtcattgaa	agaaaaatct	gcaagggtgt	ggacacttac	tgaagcagag	960
aagattctct	ttgaaactca	gaaaaacgaac	cttgctacag	aaaatcagta	tttaagagta	1020
tccctggaga	aggaagaaaa	agccttatcc	tcattacagg	aagagttaaa	caaactaaga	1080
gaacagatta	gaatattgga	agataaagg	acaagtactg	aattagttaa	agaaaaatcag	1140
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gatcagaagc	tcttactga	ctttgttaat	gatgttaaa	attatcttag	aaacatgaag	2220
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aaatcctact	ttggccaagt	ttgtttcttt	tcattatagt	ttatatgaaa	agatcacctt	2640
aagtgaat	attttctttt	aatcttttat	gtatttatct	acttttggaa	gctaggaatg	2700
agcaacacaa	attttactct	gaagtcagaa	gagctcatat	ataataatc	taatgtccca	2760
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tgaaggagaa	gtagaaagta	acagtgtact	ctagatttct	gggttgggtc	atctgttgtt	4620
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tcttacactc	acttctgtgc	ttttgtggg	ttcaagagcc	ctctgacttg	tgaagaattt	6120
gctgccctct	taagagcttg	ctgacttgtt	ttctgtgtaa	at tttttgca	catctgaata	6180
tctgtgaaga	aacaataaaa	ctacaccatg	agg			6213



Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,  
mainly head.

```

gtagccttta tttacttaaa catttatttg cttctaggaa ataagcgctt tcctaatttc      60
aagcaattat aaaagaactg ctgttttctt ccacactcac ttgccagagg gtcgaattgg      120
aagtcacata tatgtctatg aacggaagtt aaaagggaaa ttcaacatga agatgaaatt      180
ctgaactttc ctagataaat taacattgct ggggtggaaat attcagatgc tgcttaaata      240
cttcggtaaa cactgggtaa gattcatgga acttagaaaa aagctgtatg aactgcttta      300
ccaaatatca ctactgagga aatgtataaa ataccacata gtataaaatt acatgttaat      360
ccaatgccag attttaaata aaggacctta agttttcttc aagggggaag tttaatgggt      420
cnttcccgnt ntcanagggc caaaaanttc ccaaggaaac caggtagnaa gctcttnaaa      480
ggccgcacaaa t                                                                491

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Homo sapiens mRNA; cDNA DKFZp564F1862 (from clone DKFZp564F1862); complete cds

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gaggetttctg aggtggtggc gccagcggct acctcctgcc tgtgaggagc tggctgagag      60
gggactgggc gccggcgggg aaggaggagc gctaggtcgg tgtacgaccg agattagggg      120
gcgtgccagc tccgggaggg ccgcggtgagg ggccggggccc aagctgccga cccgagccga      180
tcgtcagggg cggcagcgcc tcagctctgt ggaggagcag cagtagtcgg aggggtgcagg      240
atattagaaa tggctactcc ccagtcaatt ttcattcttg caatctgcat tttaatgata      300
acagaattaa ttctggcctc aaaaagctac tatgatattc taggtgtgcc aaaatcggca      360
tcagagcgcc aaatcaagaa ggctttcac aagttggcca tgaagtacca ccctgacaaa      420
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ttatttaaag actttggcct ttttgggtcaa aaccaaaca ctggatccaa gaagcgtttt      660
gaaaatcatt tccagacacg ccaggatggg gggtccagta gacaaaggca tcatttccaa      720
gaattttctt ttggagggtg attatttgat gacatgtttg aagatatgga gaaaatgttt      780
tcttttagtg gttttgactc taccaatcag catcacgtac agactgaaaa tagatttcat      840
ggatctagca agcactgcag gactgtcact caacgaagag gaaatatggg tactacatac      900
actgactgtt caggacagta gttcttattc tattctcact aaatccaact ggttgactct      960
tcctcattat ctttgatgct aaacaatttt ctgtgaacta ttttgacaag tgcattgatt      1020
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atttttaaat cctgagaaat gtgtgctttt gttttcggt agacttattt ctttagttct      1860
gcacttttcc acattatact ccatatgagt attaactcta tggatacata ttaaaacaag      1920
tgtctcatat aacattgtat gtgagagaaa tataaatatt tacaacctaa aaaaaaaaaa      1980
aaaaaa

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Homo sapiens peroxisomal D3,D2-enoyl-CoA isomerase, mRNA (cDNA clone MGC:3558 IMAGE:3608151), complete cds.

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gagccgccca agggatggcg atggcgact tggcttggag actggcgcg cgttcgtgtc      60
cgagttctct gcaggtcact agtttcccgg tagttcagct gcacatgaat agaacagcaa      120
tgagagccag tcagaaggac ttgaaaaatt caatgaatca agtgaaactc ttgaaaaaagg      180
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cttgtaacat gccc aaacca ggtgtatttg acttgatcaa caaggccaaa tgggacgcat      300
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ccagtttgag tccttcattg gaatcctcta gtcagggtgga gcctggaaca gacaggaaat      420
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accggcccaa aaagaaaaat gccataaaca ctgagatgta tcatgaaatt atgogtgcac      540
ttaagctgc cagcaaggat gactcaatca tcactgtttt aacaggaaat ggtgactatt      600
acagtagtgg gaatgatctg actaacttca ctgatattcc ccctgggtgga gtagaggaga      660
aagctaaaaa taatgccgtt ttactgaggg aatttgtggg ctgttttata gattttccta      720
agcctctgat tgcagtggtc aatgggtccag ctgtgggcat ctccgtcacc ctccctgggc      780
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gccaaagtcc ggaaggatgc tcctcttaca cttttccgaa gataatgagc ctagccaagg      900
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gaccactaca gcagagtaaa gcatgtccaa ggaaggatgt gctgttacct ctgatttcca      1260
gtactggaac taaataagct tcattgtgcc ttttgtagtg ctagaatatc aattacaatg      1320
atgatatttc actacagctc tgatgaataa aaagttttgt aaaacaaaaa aaaaaaaaaa      1380
aaa

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Homo sapiens annexin A1, mRNA (cDNA clone MGC:5095 IMAGE:3459615), complete cds.

```

atttctcttt agttctttgc aagaaggtag agataaagac actttttcaa aaatggcaat.    60
ggtatcagaa ttctcaagc aggcctgggt tattgaaaat gaagagcagg aatatgttca    120
aactgtgaag tcatccaaag gtggtcccgg atcagcgggt agcccctatc ctaccttcaa    180
tccatcctcg gatgtcgtg ccttgcataa ggccataatg gttaaagggtg tggatgaagc    240
aaccatcatt gacattctaa ctaagcgaaa caatgcacag cgtcaacaga tcaaagcagc    300
atatctccag gaaacaggaa agcccctgga tgaaacactg aagaaagccc ttacaggtca    360
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tcgtgctgcc atgaagggcc ttggaactga tgaagatact ctaattgaga ttttggcatc    480
aagaactaac aaagaaatca gagacattaa caggggtctac agagaggaac tgaagagaga    540
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tcaagccatg aaagggtgtg gaactcgcca taaggcattg atcaggatta tgggttccccg    960
ttctgaaatt gacatgaatg atatcaaagc attctatcag aagatgtatg gtatctccct    1020
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tggaggaaac taaacattcc ctgatgggtc tcaagctatg atcagaagac ttttaattata    1140
tattttcatc ctataagctt aaataggaaa gtttcttcaa caggattaca gtgtagctac    1200
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ataagtccat tttttaaaaa tgttttcccc aaaccataaa accctataca agttgttcta    1320
gtaacaatac atgagaaaga tgtctatgta gctgaaaata aaatgacgtc acaagacaaa    1380
aaaaaaaaa aaaaaaaaaa aaaaaaaa

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## Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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ccgcgacccc	gggcccagg	cggcacagcc	ggagtggg	gggggtcccga	tgcaggcccc	120
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Homo sapiens kallikrein 8 (neuropsin/ovasin), transcript variant 1, mRNA  
(cDNA clone MGC:50513 IMAGE:5742016), complete cds.

```

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Human mRNA for KIAA0188 gene, partial cds.

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Homo sapiens 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble),  
mRNA (cDNA clone IMAGE:2819708), partial cds.

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Homo sapiens S100 calcium binding protein A14, mRNA (cDNA clone MGC:11012 IMAGE:3640899), complete cds.

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Homo sapiens cDNA clone:ADBALE09, 5'end, expressed in human adrenal gland.

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as43b01.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319913 3',  
mRNA sequence.

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tacacagcag	tatctgttaa	gtcagtggtt	tgagtgaaaa	cacagtacca	aaacattcct	180
gatacaaaat	aagttactca	ttcacatatt	ctaatacatc	aagacactta	atatttttaa	240
agttacatac	ttcaaataac	actggctaaa	tgtacaacta	aagtttatta	atttttttta	300
tgaaaagact	tcagattggt	attcataaat	gatccctttc	aggatgcatt	atctttttaa	360
taaataaaact	aaattgactt	caagactatt	tataaatagc	ccactaaaat	atgattgaag	420
acattccttc	attttattaa	gggtgtagcta	tatactagag	aatatgctca	actactgcct	480
ccaaatccaa	cactgtcatt	ctaattgcaa	atagaattta	ttaaattcca	cttcaggaca	540
tgagatgagc	tgcttgcctt	attttgtcaa	tggttccaaa	gcattaacgg	attaagagac	600
tgc						603

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517 IMAGE:3356428), complete cds.

```

ccgaggcggc ggcggcgact ccctctttcc ctccctcctc ctccgtccgc ccgtccgtcc      60
gcgcgtctgt ccgttcggcc cggtcggcc cgaagcatgg ccggcgtcag cttcagcggc      120
caccgcctgg agctgctggc ggcttacgag gaggtgatcc gagaggagag cgcggccgac      180
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gatgtgcctg atgcccgcga gtgcgcttgt gccagccacg tggctaaggt ggcagagttc      420
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cggctgcgag aggatgagaa cgcagagccc gtgggcacca cctaccagaa gacggatgca      600
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atatcacttt gtattctctg tccagggtt cagatatttt gcacgaattt taaaacatgg      2520
caataaatgg ctcgtgggct ctggcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      2580
aaaaaaaaaa aaa                                     2593

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Homo sapiens potentially prenylated protein tyrosine phosphatase hPRL-3  
mRNA, complete cds.

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gacaagcaca	gggatctcgt	tctcctcatt	ttttgggggt	gtgtggggac	ttctcaggtc	180
gtgtccccag	ccttctctgc	agtccttct	gccctgccgg	gcccgtcggg	aggcgccatg	240
gctcggatga	accgccccgc	cccgggtggag	gtgagctaca	aacacatgcg	cttcctcatc	300
accacacaacc	ccaccaacgc	cacgctcagc	accttcattg	aggacctgaa	gaagtacggg	360
gctaccactg	tggtgcgtgt	gtgtgaagtg	acctatgaca	aaacgccgct	ggagaaggat	420
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agcgggatga	agtacgagga	cgccatccag	ttcatccgcc	agaagcgccg	cggacgcac	660
aacagcaagc	agctcaccta	cctggagaaa	taccggccca	aacagaggct	gcggttcaaa	720
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tttctcctgt	ctccgtactc	cctctggcgg	cgtggcgtg	gctctg		1006

Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA, complete cds.

gaattcgcaa	agatgctaaa	gagagaactg	gagagagAAC	gactagtaac	tacggcctta	60
aggggggaac	tccagcagtt	aagtggtagt	cagttacatg	gcaagtcaga	ttctcccaat	120
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aagctaacct	tcgaacagca	gcgttctgat	ttgtgggaaa	gattgtatgt	tgaggcaaaa	240
gatcaaaatg	gaaaacaagg	aacagatgga	aaaaagaaag	ggggcagagg	aagccacagg	300
gttaaaaata	agtcaaaagg	aacatttttg	ggttcagtta	aggaaacatt	tgatgccatg	360
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cagttcatca	ataagttttt	cctaaacggt	gtctttatac	atgatcagaa	gctcttctact	960
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aaaaaaaaa	aaaaaaaaa	aaaaaacgg	tcgaaaagcg	gccgccaccg	cgtgga	1856

Human channel-like integral membrane protein (CHIP28) mRNA, complete cds.

gcaccggca	gcgggtctcag	gccaaagcccc	ctgccagcat	ggccagcgag	ttcaagaaga	60
agctcttctg	gagggcagtg	gtggccagagt	tcctggccac	gaacctcttt	gtcttcatca	120
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gcagtggagg	gggcaagctt.					1340



Homo sapiens STRA6 isoform 1 mRNA, complete cds, alternatively spliced.

```

agteccagac gggcttttcc cagagagcta aaagagaagg gccagagaat gtcgtccag      60
ccagcagggg accagacctc ccccggggcc acagaggact actcctatgg cagctggtac      120
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                     2732

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## Homo sapiens solute carrier family 7 (cationic amino acid transporter

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601440558F1 NIH\_MGC\_72 Homo sapiens cDNA clone IMAGE:3925214 5', mRNA sequence.

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## Human DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF

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nac79g07.x1 NCI\_CGAP\_Brn23 Homo sapiens cDNA clone IMAGE:3440820 3', mRNA  
sequence.

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Homo sapiens hypothetical protein MGC11256, mRNA (cDNA clone MGC:60219 IMAGE:6091291), complete cds.

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Homo sapiens cDNA clone IMAGE:3952627, partial cds.

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PT1.1\_07\_C06.r tumor1 Homo sapiens cDNA 5', mRNA sequence.

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Homo sapiens cDNA FLJ12940 fis, clone NT2RP2005038, weakly similar to DNA  
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np60h03.s1 NCI\_CGAP\_Br2 Homo sapiens cDNA clone IMAGE:1130741 3', mRNA sequence.

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Homo sapiens ALL1-fused gene from chromosome 1q, mRNA (cDNA clone IMAGE:2823316).

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caagggtcaaa	gacagcagcg	ttggcaaaat	gatcgggcaa	gcaactgcag	cagaccagga	180
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cattgccagc	atccactcct	tcgaactgga	cttgctctaa	ggccaagact	tctctctccc	300
atcaccttgc	cctcattgtc	ttccctctca	agccctctcc	tttccactcc	tttcccattt	360
taatcttggt	ctctccctac	tgtgttggtg	gtgctgatga	atctgccaga	gttgagtctt	420
atgtatttat	ttatctatct	gtctactcca	tttctctcaa	aagccctcaa	gtcacaaaagt	480
aaatggttca	agcaatggag	tactgggtca	cagggattcc	tcctttcccc	cccaaatatt	540
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taagtccat	tttagcctta	cctcctgcat	ttgcaatacg	taatactgat	cagtgggcac	1140
agttcttcag	ctacattgag	accctgaaat	gaacaattat	attctgactc	gacatcttgt	1200
ccccaatcct	tccaaaaata	ttgatggtga	tttgtgtctac	catttactcg	tttatttaaat	1260
aaagacattc	aatcccagga	aaaaaaaaaa	aaaaaaaaaa	aa		1302

Human mRNA for acetyl-coenzyme A transporter, complete cds.

gaattcgag	cgagagctgg	agggtgtggg	tcgggagacc	agccattcga	tcccgcgcga	60
ggtaggagct	ggtttccatc	ctggcaccac	ggcacacacc	tccagcctcg	agcccggcgc	120
tgctgcccgg	gggtctcctt	caggctcttt	gacgcggttc	cagggggcac	ctatccaggc	180
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gaagtgccct	tatcgctctg	agccctgcca	ccatcccgtg	aaccaccgaa	accctggtcc	300
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cagacggggc	tctgcatcgt	ctctgatatg	tcaccaccca	tctcccacaa	ggacagcagc	420
cggcaacggc	ggccaggga	tttcagtcat	tctctggata	tgaagagcgg	tccccgtccg	480
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gcgggaagca	tcccactcat	tttgcaaacg	aaaaatgtta	gctatacaga	ccaagctttc	720
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agaacacccg	acgtgattgc	tctcactgtg	gcgttctttt	tggttgaatt	cttggccgcc	960
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cacaactagt	ctgacattgt	tggcagttta	aatcttattt	tgaattgtaa	attagttaaa	2520
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ttcttatgac	cacattgtac	aaatgaatct	gtgttaaaaa	gactatttta	aatgtatttc	2640
ctgcttttgt	aagcattaaa	gatttgaatt	ccaccacact	gg		2682

Homo sapiens SDF2L1 mRNA for SDF2 like protein 1, complete cds.

gctggagccg	ggccggggcg	atgtggagcg	cgggccgcgg	cggggctgcc	tggccgggtgc	60
tgttggggct	gctgctggcg	ctgttagtgc	cgggcgggtgg	tgccgccaaag	accgggtgcgg	120
agctcgtgac	ctgcgggtcg	gtgctgaagc	tgtctcaatac	gcaccaccgc	gtgcgggtgc	180
actcgcacga	catcaaatac	ggatccggca	gcggccagca	atcggtgacc	ggcgtagagg	240
cgtcggacga	cgcgaatagc	tactggcgga	tccgcggcgg	ctcggagggc	gggtgcccgct	300
gcgggtcccc	ggtgcgctgc	gggcaggcgg	tgaggctcac	gcattgtgctt	acgggcaaga	360
acctgcacac	gcaccacttc	ccgtcgccgc	tgtccaacaa	ccaggagggtg	agtgcctttg	420
gggaagacgg	cgagggcgac	gacctggacc	tatggacagt	gcgctgctct	ggacagcact	480
gggagcgtga	ggctgctgtg	cgcttacagc	atgtgggcac	ctctgtgttc	ctgtcagtc	540
cgggtgagca	gtatggaagc	cccatccgtg	ggcagcatga	ggtccacggc	atgcccagtg	600
ccaacacgca	caatacgtgg	aaggccatgg	aaggcatctt	catcaagcct	agtgtggagc	660
cctctgcagg	tcacgatgaa	ctctgagtg	gtggatggat	gggtggatgg	aggggtggcag	720
gtggggcgtc	tgcagggcca	ctcttggcag	agactttggg	tttgtagggg	tcctcaagtg	780
cctttgtgat	taaagaatgt	tggtctatga				810

Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

cccgggagga	ggaggcggcg	agaatggcag	cggcgtcgtg	ggcgcggcgg	agatgagcgc	60
ccgcgacccc	gggccaggg	cggcacagcc	ggagtgggcg	ggggtcccga	tgcaggcccc	120
aggggggcca	tggggcaggt	cctgccggtc	ttcgccact	gcaaagaagc	tccgtctaca	180
gcctcctcaa	ctcctgattc	cacagaagga	gggaacgacg	actctgattt	tcgagagctg	240
cacacagccc	gggaattctc	agaggaggac	gaggaggaga	ccacgtcgca	ggactggggc	300
accccccg	agctgacctt	ctcctacatc	gcctttgatg	gtgtagtggg	ctccgggggc	360
cgcagggatt	caactgccc	ccgccccgc	ccccagggc	gctcagtctc	ggaaccacga	420
gaccagcacc	ctcagcccag	cctgggcgac	agcttgga	gcaccccag	cctgagccaa	480
tccccggagc	ctggacgacg	gggtgatcct	gacaccgcgc	ctccatccga	gcgccctctg	540
gaagacctga	ggcttcgggt	ggaccatctg	ggctgggtgg	cccggggaac	gggatccggg	600
gaggactctt	ccaccagcag	ctccacccc	ctggaagacg	aagaaccca	agaacccaac	660
agattggaga	caggagaagc	tggggaagaa	ctggacctac	gactccgact	tgctcagccc	720
tcatcgcccg	aggtcttgac	tccccagctc	agtccgggct	ctgggacacc	ccaggccggg	780
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agcacggacc	aattagaatt	cacgggtggag	ccacgccttc	taggaacagc	tatggaatgg	960
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cgcgaagtgc	tgcaggccgt	gcaccggggg	gatggagcca	accctttcca	ggcctacctg	1380
gatgtggacc	tcaccctgac	tggggagcag	acggaacgtt	tgtcccacca	gatcacctcc	1440
cgcgtgggtct	cggcggccac	gcagctgcgg	cacttcttcc	tggtagaaga	cctcgtggat	1500
tccctcaagc	tggccctcct	cttctacatc	ttgaccttcg	tgggtgccat	cttcaatggg	1560
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gcacttccgg	acccgcgcgt	ggaggcgccg	tgaggcggtg	gtgtctcctg	gatgctacta	2100
gccccaacgc	cggggctttg	catggggccc	aggggaggcc	tgagcttggg	tttacactgt	2160
aataaagact	cctgtggaaa	aaaaaaaaa				2190

Homo sapiens cDNA: FLJ22209 fis, clone HRC01496.

cgatgatgag	gctgaagaaa	aggaagacaa	agaagaagaa	aaagaaaaag	aagagaaaga	60
gtcgggaagac	aaacctgaaa	ttgaagatgt	tggttctgat	gaagaagaag	aaaagaaacc	120
aaagactaaa	aaagttgaaa	aaactgtctg	ggactgggaa	cttatgaatg	atatcgttca	180
taaactttcc	tatttatgta	tggagcagca	agactgaaac	tgttgaggag	cccatggagg	240
aagaagaagc	agccaaagaa	gagaaagaag	aatctgatga	tgaagctgca	gtagaggaag	300
aagaagaaga	aaagaaacca	aagactaaaa	aagttgaaaa	aactgtctgg	gactgggaac	360
ttatgaatga	tatcgttcat	aaactttcct	atttatgtat	ggagcagcaa	gactgaaact	420
ggtgaggagc	ccatggagga	agaagaagca	gccaaagaag	agaaagaaga	atctgatgat	480
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gaaagaagaa	tctgatgatg	aagctgcagt	agagggaagaa	gaagaagaaa	agaaacccaa	720
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actttcctat	ttatgtatgg	agcagcaaga	ctgaaactgt	tgaggagccc	atggagggaag	840
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gtctgggact	gggaacttat	gaatgatata	gttcataaac	tttcctattt	atgtatggag	1200
cggcaagact	gaaactgttg	aggagcccat	ggaggaagaa	gaagcagcca	aagaagagaa	1260
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ctatttatgt	atggagcagc	aagactgaaa	ctgttgagga	gcccattggag	gaagaagaag	2040
cagccaaaga	agagaagaa	gaatctgatg	atgaagctgc	agtagaggaa	aaaaaaaaaa	2100



Homo sapiens UDP-N-acetylglucosamine-2-epimerase mRNA, complete cds.

cggcgtctgg	aactctat	tttagaacctct	caaaacgaaa	caagcaa	atggagaaga	60
atggaaataa	ccgaaagctg	cggtttgtg	ttgctacttg	taaccgtgca	gattattcta	120
aacttgcccc	gatcatgttt	ggcattaaaa	ccgaacctga	gttctttgaa	cttgatgttg	180
tggtagcttg	ctctcacctg	atagatgact	atggaaatac	atatcgaatg	attgaacaag	240
atgactttga	cattaacacc	aggctacaca	caattgtgag	gggagaagat	gaggcagcca	300
tggtaggagtc	agtaggcctg	gccctagtga	agctgccaga	tgtcctta	cgctgaagc	360
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gaatgtttca	cttttgtctc	ctcttccaga	gtcaccttcc	ccactcta		2388

Homo sapiens carcinoembryonic antigen 2a (CEM2) mRNA, complete cds.

gccatgggtt	ccccttcagc	ctgtccatac	agagtgtgca	ttccctggca	ggggctcctg	60
ctcacagcct	cgcttttaac	cttctggaac	ctgccaaaca	gtgccagac	caatattgat	120
gggtgtgcgt	tcaatgtcgc	agaaggaag	gaggtccttc	tagtagtcca	taatgagtcc	180
cagaatcttt	atggctacaa	ctggtacaaa	gggcaaaggg	tgcatgccaa	ctatcgaatt	240
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gagacaatat	acccaatgg	aaccctgctg	atccagaacg	tcacccacaa	tgacgcagga	360
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tgggtaaaca	atcagagcct	cctggtcagt	cccaggctgc	tgctctccac	tgacaacagg	600
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caagcaagtt	cacctgacct	ctcagctggg	accgctgtca	gcacatgat	tggagtactg	780
gctgggatgg	ctctgatata	gcag				804

yh42a11.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:132380 5',  
mRNA sequence.

ggtttttaca	agagtaacac	atttaaattt	acagaggtaa	gaatttcctt	ggagaaatag	60
gtgctggtga	taataggagt	atctttcttt	tccatatcaa	cataattata	ataaataact	120
cacagattta	aaggcttatt	ttgtgccagg	cattctgctg	agtgtctttac	atacatgtct	180
catgtaatcc	tcccacacagc	tctgcaggga	caggagttaa	tgattatctt	gattttatag	240
gaataggtaa	tgtaatgctc	agagaggggt	aaacatctgg	gttaggtcac	acaggctaata	300
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tccccnggca	ctttggggga	ggcntaggcc	gggnccggtc	cccggggtcn	ggggtcceng	420
gccccctcgg						430

Homo sapiens immediate early response 3, transcript variant short, mRNA

ctccgctcgg	ctcaccatgt	gtcactctcg	cagctgccac	ccgaccatga	ccatcctgca	60
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7f03b12.x1 NCI\_CGAP\_CLL1 Homo sapiens cDNA clone IMAGE:3293567 3', mRNA sequence.

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ctgctcagca ttgtttaaaa agggtcactc acagtthtgt caaagagtgc tgggtgtctc	240
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gaagcgatga gcatcacaca gcag	504

human full-length cDNA 3-PRIME end of clone CS0DA009YG15 of NEUROBLASTOMA  
of Homo sapiens (human)

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akctctgata	tctttagtaa	agaatacaaa	accctgtktt	tcttaaaaawc	ctaagtctga	300
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g						1201

602288121F1 NIH\_MGC\_97 Homo sapiens cDNA clone IMAGE:4373861 5', mRNA  
sequence.

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Homo sapiens organic anion transporter polypeptide-related protein 1  
(OATPRP1) mRNA, complete cds.

```

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aaa

```

Homo sapiens cDNA: FLJ21243 fis, clone COL01164.

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ttaaaaaaaa	aaaaaaaaaa					1880



ab38f03.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone  
IMAGE:843101 3' similar to contains Alu repetitive element;; mRNA sequence.

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Homo sapiens KPL1 (KPL1) mRNA, complete cds.

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Homo sapiens carboxypeptidase, vitellogenic-like, transcript variant 2,  
mRNA (cDNA clone MGC:10029 IMAGE:3888647), complete cds.

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                1772

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Homo sapiens teratocarcinoma-derived growth factor 1, mRNA (cDNA clone MGC:24110 IMAGE:4615416), complete cds.

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aaaaaaaaa

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Homo sapiens lipase mRNA, complete cds.

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ccttccaaag	aacctgcact	tggtctgcgt	ggacatgcca	ggacatgagg	gcaccacccg	600
ctcctccctg	gatgacctgt	ccatagatgg	gcaagttaag	aggatacacc	agtttgtaga	660
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Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog, mRNA  
(cDNA clone MGC:11074 IMAGE:3688670), complete cds.

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aaaaaaaaaa	aaaa					1814

Homo sapiens endoplasmic reticulum lumenal Ca<sup>2+</sup> binding protein grp78 mRNA, complete cds.

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cccccaactg	gtgaagagga	tacagcagaa	aaagatgagt	tgtag		1965

Homo sapiens S100 calcium binding protein A2, mRNA (cDNA clone MGC:3847  
IMAGE:3659591), complete cds.

```

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```



wa01c11.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2296820 3', mRNA  
sequence.

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ccta						484

Human 150 kDa oxygen-regulated protein ORP150 mRNA, complete cds.

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tac						4503

Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds.

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caaggatggc	tacatcaact	gccgggatct	gggcaactgc	atgcgcacca	tggtgtacat	240
gccaccgag	atggagctca	tgaactgtc	ccagcagatc	aacatgaacc	tggttgcca	300
tgtagatttt	gatgacttcg	tggagcta	ggggcctaaa	ctcctggcag	agacagcaga	360
tatgattggt	gtaaaggaa	tgcgagatgc	tttccgagag	tttgacacca	atggtgatgg	420
ggaaataagc	accagtgagc	tgcgagagc	tatgaggag	ctcctgggtc	atcaggtggg	480
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caagctcca	aaggcggggc	taagaggagc	tagagcttgc	ctcaccgcct	gtagccgccg	660
agagcccagg	atgtactggc	ggatggggcc	tgctgcacc	ccggggcgga	attc	714

Homo sapiens cDNA FLJ12397 fis, clone MAMMA1002769, weakly similar to Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA.

ataagaggcg	tcattggcgc	ccgagctgtg	accgccgcca	ctggggcagc	cagcacaatc	60
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cagaaaactgt	attttcatct	cagcctagtg	acgatgaatc	aagtagtgat	gaaaccagta	600
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tcttaagagc	ttgctgactt	gttttcttgt	gaaatttttt	gcacatctga	atatcgtgga	1920
agaaacaata	aaactacacc	atgag				1945

hn58g08.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:3032126 3', mRNA  
sequence.

cattgcttta	cgtagatagt	aaactatgca	tagtatTTTTa	tttGtaaccc	catgtgttaa	60
gaagggacac	tgTTaaagta	acaatcattt	aaaagtaaca	accaacaaac	tggtattTTaa	120
tttggtattt	taaatagtta	aaaatcaaat	ggaaacagtg	tctaaagtca	ctaagataat	180
tcataacaaa	accattaat	ccaagctcca	cttattgtaa	atagaattca	ccatgagcta	240
acctaaaatg	tacctgtgga	gataaaacaa	gagtgttaagt	tagcaaagta	ttaaataaaa	300
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agctttg						547

Homo sapiens cDNA FLJ13465 fis, clone PLACE1003493, weakly similar to  
 ENDOTHELIAL CELL MULTIMERIN PRECURSOR.

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aattctcat	ccactgcag	cagccgtgtc	cgcagggagc	tccagactgc	cagaaagtca	360
aagtcattgta	ccgcatggcc	cacaagccag	tgtaccaggt	caagcagaag	gtgctgacct	420
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cagccatgtg	gaacagtgag	tcaattaaac	ctctttcctt	tataaatt		3828



Homo sapiens heat shock 27kDa protein 1, mRNA (cDNA clone MGC:8509  
IMAGE:2822325), complete cds.

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aaaaaaaaa aaaaaaaaaa aaaaaaa 867

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Homo sapiens carcinoembryonic antigen (CEM2) mRNA, complete cds.

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tcacagcctc	gcttttaacc	ttctggaacc	tgccaaacag	tgcccagacc	aatattgatg	120
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ctgggatggc	tctgatatag	cagccttggt	g			811

Homo sapiens keratin 7, mRNA (cDNA clone MGC:3625 IMAGE:3610347), complete cds.

```

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ggagtgggag ccgtgaatat ctctgtgatg aattccactg gtggcagtag cagtggcggt      1320
ggcattgggc tgaccctcgg gggaaccatg ggcagcaatg ccctgagctt ctccagcagt      1380
gcgggtcctg ggctcctgaa ggcttattcc atccggaccg catccgccag tcgcaggagt      1440
gcccgcgact gageccgctc ccaccactcc actcctccag ccaccacca caatcacaag      1500
aagattccca cccctgcctc ccatgcctgg tcccagaca gtgagacagt ctggaaagtg      1560
atgtcagaat agcttccaat aaagcagcct cattctgagg cctgagtgat ccacgtgaaa      1620
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1668

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Homo sapiens hxCT mRNA for cystine/glutamate exchanger, complete cds.

cctgtgaaca	ctatagcgct	gagagagaca	gtctgaaagc	agaggaagac	atcgatcagt	60
aacaccaaga	gacaccaaaag	ttgaaagttt	tgttttcttt	ccctctgttt	tatttttccc	120
ccgtgtgtcc	ctactatggt	cagaaagcct	gttgtgtcca	ccatctccaa	aggaggttac	180
ctgcagggaa	atgttaacgg	gaggctgcct	tccctgggca	acaaggagcc	acctgggcag	240
gagaaagtgc	agctgaagag	gaaagtcact	ttactgaggg	gagtctccat	tatcattggc	300
accatcattg	gagcaggaat	cttcatctct	cctaagggcg	tgctccagaa	cacgggcagc	360
gtgggcatgt	ctctgaccat	ctggacggtg	tgtgggggtcc	tgtcactatt	tggagctttg	420
tcttatgctg	aattgggaac	aactataaag	aaatctggag	gtcattacac	atataattttg	480
gaagtctttg	gtccattacc	agcttttgta	cgagtctggg	tggaactcct	cataatacgc	540
cctgcagcta	ctgctgtgat	atccctggca	tttggacgct	acattctgga	accatttttt	600
attcaatgtg	aaatccctga	acttgcgac	aagctcatta	cagctgtggg	cataactgta	660
gtgatgggtcc	taaatagcat	gagtgtcagc	tggagcgccc	ggatccagat	tttcttaacc	720
ttttgcaagc	tcacagcaat	tctgataaatt	atagtccctg	gagttatgca	gctaattaaa	780
ggtaaaacgc	agaactttaa	agacgccttt	tcaggaagag	attcaagtat	tacgcgggtg	840
ccactggctt	tttattatgg	aatgtatgca	tatgctggct	ggttttacct	caactttgtt	900
actgaagaag	tagaaaaacc	tgaaaaaacc	attccctctg	caatatgtat	atccatggcc	960
attgtcacca	ttggctatgt	gctgacaaat	gtggcctact	ttacgacct	taatgctgag	1020
gagctgctgc	tttcaaatgc	agtggcagtg	accttttctg	agcggctact	gggaaatttc	1080
tcattagcag	ttccgatctt	tgttgccctc	tctgctttg	gctccatgaa	cggtgggtgtg	1140
tttgcgtgtc	ccaggttatt	ctatgttgcg	tctcgagagg	gtcaccttcc	agaaatcttc	1200
tccatgattc	atgtccgcaa	gcacactcct	ctaccagctg	ttattgtttt	gcaccttttg	1260
acaatgataa	tgctcttctc	tggagaacct	gacagtcttt	tgaatttcct	cagttttgcc	1320
aggtggcttt	ttattggggt	ggcagttgct	gggctgattt	atcttcgata	caaatgccca	1380
gatatgcac	gtcctttcaa	ggtgccactg	ttcatcccag	ctttgttttc	cttcacatgc	1440
ctcttcattg	ttgccctttc	cctctattcg	gacccattta	gtacagggat	tggcttcgtc	1500
atcactctga	ctggagtcct	tgcgtattat	ctctttatta	tatgggacaa	gaaaccagg	1560
tggtttagaa	taatgtcagg	gttcctagca	ctgatgcctg	cacaagcatg	tgatatgtga	1620
aataaaatgg	attcttctat	agctaaatga	gttcctctg	gggagagttc	tggtagtgca	1680
atcacaaatgc	cagatgggtg	ttatgggcta	tttgtgtaag	taagtggtaa	gatgctatga	1740
agtaagtgtg	tttgttttca	tcttatggaa	actcttgatg	catgtgcttt	tgtatggaat	1800
aaattttggg	gcaatatgat	gtcattcaac	tttgcatgga	attgaatttt	ggttggtatt	1860
atatgtatta	tacctgtcac	gcttctagtt	gcttcaacca	ttttataacc	atttttgtac	1920
atattttact	tgaaaatatt	ttaaatggaa	atttaaataa	acatttgata	gtttacataa	1980
taaaaaaaaa	aaaaaaaaaa					2000

Homo sapiens eukaryotic translation elongation factor 1 alpha 2, mRNA (cDNA clone MGC:8362 IMAGE:2819899), complete cds.

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cactgcagcc cccctcgccc tgagccagag caccgccggt cccgccagcc cctcacactc      60
ccagcaaaat gggcaaggag aagaccaca tcaacatcgt ggtcatcggc cactgggact      120
ccggaaaagtc caccaccacg ggccacctca tctacaaatg cggaggtatt gacaaaagga      180
ccattgagaa gttcgagaag gaggcggtcg agatggggaa gggatccttc aagtatgcct      240
gggtgctgga caagctgaag gcgagcggtg agcgcgcat caccatcgac atctccctct      300
ggaagttcga gaccaccaag tactacatca ccatcatcga tgcccccggc caccgcgact      360
tcatcaagaa catgatcacg ggtacatccc aggcggactg cgcagtgcgtg atcgtggcgg      420
cgggcggtgg cgagttcgag gcgggcatct ccaagaatgg gcagacgcgg gagcatgccc      480
tgctggccta cacgctgggt gtgaagcagc tcatcgtggg cgtgaacaaa atggactcca      540
cagagccggc ctacagcgag aagcgctacg acgagatcgt caaggaagtc agcgctaca      600
tcaagaagat cggctacaac ccggccaccg tgccctttgt gccatctcc ggtggcacg      660
gtgacaacat cgtggagccc tcccccaaca tgccgtggtt caagggctgg aaggtggagc      720
gtaaggaggg caacgcaagc ggcggtgtccc tgctggaggc cctggacacc atcctgcccc      780
ccacgcgccc cacggacaag cccctgcgcc tgccgctgca ggacgtgtac aagattggcg      840
gcattggcac ggtgcccggt ggccgggtgg agaccggcat cctgcggccg ggcattggtg      900
tgacctttgc gccagtgaac atcaccactg aggtgaagtc agtggagatg caccacgagg      960
ctctgagcga agctctgccc ggcgacaacg tcggcttcaa tgtgaagaac gtgtcggtga      1020
aggacatccg gcggggcaac gtgtgtgggg acagcaagtc tgaccgcggc caggaggctg      1080
ctcagttcac ctcccaggtc atcatcctga accaccggg gcagattagc gccggctact      1140
ccccggtcat cgactgccac acagcccaca tcgctgcaa gtttgcgag ctgaaggaga      1200
agattgaccg gcgctctggc aagaagctgg aggacaaccc caagtccctg aagtctggag      1260
acgcggccat cgtggagatg gtgcgggaa agcccatgtg tgtggagagc ttctccagt      1320
accgcctct cggccgcttc gccgtgcgcg acatgaggca gacggtggcc gtaggcgtca      1380
tcaagaacgt ggagaagaag agcggcggcg ccggcaaggt caccaagtcg gcgcagaagg      1440
cgcagaaggc gggcaagtga agcgcggcg ccgcggcg gacctcccc gcggcgccg      1500
cgctccgaac ccggcccg ccgccgcccc gccccgccc cgcgcgcgc tccggcgccc      1560
cgcacccccg ccaggcgcat gtctgcacct ccgcttgcca gaggcctcg gtcagcgact      1620
ggatgctcgc catcaaggtc cagtgaagt tcttcaagag gaaaggcgcc cccgccccag      1680
gcttcgcgc ccagcgctcg ccacgctcag tgccggtttt accaataaac tgagcgaccc      1740
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a

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Homo sapiens cDNA clone:HEMBA1000726, 3' end, expressed in whole embryo mainly head.

gagacggagt	ctcgtctcttg	tcacccaggt	tggagtgcag	tggcacaatc	tcggctcact	60
gcaacctcca	cctcctgtgt	ttaaacgatt	ctcctgcttc	agcctcctga	gtagctggaa	120
ttacaggccc	tgccaccacc	cccccgctaa	tttttgtcta	tttttttttt	ttagtagaga	180
cgggggttca	ccatggttgc	tagtctggtc	ttgaactcct	gactgacctc	agacgaacca	240
cccgccctcag	actcccaaag	tgtcaggatt	acaggcgcta	gccaccatac	ctggcctgct	300
cccagttttt	acaagatgtt	aattcccaat	aatctgagag	caatgtgtta	atatgaatat	360
taattcttct	aatgaatat	tcatccttat	ttcctacttg	tataggtgga	tgaataaaga	420
tccaatagta	taatagaaag	actattagta	agaatgccag	aaggncagtc	tcatgcacct	480
ggtgaaataa	accaaccaac	caacctgaan	tctaaagctt	gngtggcaag	taccactgtg	540
gggaagtgtg	gaattaacnc	tcttttccta	aggggtc			576

## Homo sapiens MDG1 mRNA, complete cds.

tagctggctg	agaggggact	gggcgcggc	ggggaaggag	gagcgctagg	tcgggtgtacg	60
accgagatta	gggtgcgtgc	cagctccggg	aggccgcggg	gaggggcccg	gcccagactg	120
ccgacccgag	ccgatcgtca	gggtcgccag	cgctcagct	ctgtggagga	gcagcagtag	180
tcggagggtg	caggatatta	gaaatggcta	ctccccagtc	aattttcatc	tttgcaatct	240
gcattttta	gataacagaa	ttaattctgg	cctcaaaaag	ctactatgat	atcttaggtg	300
tgccaaaatc	ggcatcagag	cgccaaatca	agaaggcctt	tcacaagttg	gccatgaagt	360
accaccctga	caaaaataag	agcccggatg	ctgaagcaaa	attcagagag	attgcagaag	420
catatgaaac	actctcagat	gctaatagac	gaaaagagta	tgatacactt	ggacacagtg	480
cttttactag	tggtaaagga	caaagaggta	gtggaaagtc	ttttgagcag	tcattttaact	540
tcaattttga	tgacttattt	aaagactttg	gcttttttgg	tcaaaaccaa	aacactggat	600
ccaagaagcg	ttttgaaaat	catttccaga	cacgccagga	tggtgggtcc	agtagacaaa	660
ggcatcattt	ccaagaattt	tcttttggag	gtggattatt	tgatgacatg	tttgaagata	720
tgaggaaaa	gttttctttt	agtggttttg	actctacca	tcagcataca	gtacagactg	780
aaaatagatt	tcattggatct	agcaagcact	gcaggactgt	cactcaacga	agaggaaaata	840
tggttactac	atacactgac	tggtcaggac	agtagttctt	attctattct	cactaaatcc	900
aactggttga	ctcttctca	ttatctttga	tgctaaacaa	ttttctgtga	actattttga	960
caagtgcattg	atttcacttt	aaacaatttg	atatagctat	taaatatatt	taaggggttt	1020
tttttttttg	acaaattcaa	cattcaacga	gtagacaaaa	tgctaattat	ttccctgatt	1080
aggaaagttt	ctttaaaaaa	cacgtaattt	tgctagtgcc	tttttctcta	cctgcccttg	1140
ggctcactaa	tatcaccagt	attattacca	agaaaatatt	gagtttacct	gattaaactt	1200
taaaagttaa	ttgtagattt	aaattgtgtg	aacctaatga	tttttgagct	gaaaccttta	1260
ctaattcaaa	gttgcatggt	ctatgacatc	tgtagcttgc	gttgacagag	gtacatgaaa	1320
ctgtataatt	gagtcattca	gtaaaggaga	acagtatctt	ggttaattgc	tactgaaagg	1380
ttgagaaaag	aatgggttga	tatttaccac	agcgtgtgtc	ctttctacag	tagaactggg	1440
gtaaaggaaa	tggttttatt	gcccatagtc	atttaggctg	gaaaaaagtt	gaaaacttaa	1500
cgaaatattg	ccaagagatt	gttatgtgtt	tggttccagc	ctaaaaatga	ttttgtagtg	1560
ttgaaatcat	agctacttac	atagcttttt	catatttctt	tcttagttgt	tggcactctt	1620
aggtcttagt	atggatttat	gtgtttgtgt	gtgtgtagtt	tatcctctct	ctcatcttta	1680
tctagagatt	gactgatacc	tcattctgtt	tgtaaaacca	gccagtaatt	tctgtgcaac	1740
cttactatgt	gcaatatttt	taaatcctga	gaaatgtgtg	cttttgtttt	cggatagact	1800
tatttcttta	gttctgcact	tttccacatt	atactccata	tgagtattaa	tcctatggat	1860
acatatataa	acaagtgtct	catacaacat	tgtatgtgag	agaaatataa	atattttacaa	1920
cctgaaaaa						1929

Homo sapiens prostate stem cell antigen (PSCA) mRNA, complete cds.

agggagaggc	agtgaccatg	aaggctgtgc	tgcttgccct	gttgatggca	ggcttggccc	60
tcagccagg	cactgccctg	ctgtgctact	cctgcaaagc	ccaggtgagc	aacgaggact	120
gcctgcaggt	ggagaactgc	acccagctgg	gggagcagtg	ctggaccgcg	cgcacccgcg	180
cagttggcct	cctgaccgtc	atcagcaaag	gctgcagctt	gaactgcgtg	gatgactcac	240
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gcggggccca	tgccctgcag	ccggctgccg	ccatccctgc	gctgctccct	gcactcggcc	360
tgctgctctg	gggacccggc	cagctatagg	ctctgggggg	ccccgctgca	gcccacactg	420
ggtgtgggtg	cccaggcctt	tgtgccactc	ctcacagaac	ctggcccagt	gggagcctgt	480
cctggttcct	gaggcacatc	ctaacgcaag	tttgaccatg	tatgtttgca	ccccctttcc	540
ccnaaccctg	accttcccat	gggccttttc	caggattccn	accnggcaga	tcagttttag	600
tganacanat	ccgcntgcag	atggcccctc	caaccntttt	tggtgntggt	tccatggccc	660
agcattttcc	acccttaacc	ctgtgttcag	gcacttnttc	ccccaggaag	ccttccctgc	720
ccaccccat	tatgaattga	gccaggtttg	gtccgtggtg	tccccgcac	ccagcagggg	780
acaggcaatc	aggagggccc	agtaaaggct	gagatgaagt	ggactgagta	gaactggagg	840
acaagagttg	acgtgagttc	ctgggagttt	ccagagatgg	ggcctggagg	cctggaggaa	900
ggggccaggc	ctcacatttg	tgggntccc	gaatggcagc	ctgagcacag	cgtaggccct	960
taataaacac	ctgttgata	agccaaaaa				990



## Human arginine-rich protein (ARP) gene, complete cds.

cttcggtcct	gctgtagtgc	cttctgcgcc	aggccccggtt	caatcagcgg	ccacaaactgt	60
ctagggctca	gacaccacca	gccaatgagg	gagggcacgt	ggagccgcgt	ctgggctcgc	120
ggctcctgac	caatggggaa	gtggcatgtg	ggagggcgcc	ggggttcccc	ccgccaatgg	180
ggagctacgg	cgcgcgccg	ggacttggag	gcggtgcggc	gcggcgggtg	cggttcagtc	240
ggtcggcggc	ggcagcggag	gaggaggagg	aggaggagga	tgaggaggat	gaggaggatg	300
tgggccacgc	aggggctggc	ggtgcgcgtg	gctctgagcg	tgctgccggg	cagccgggcg	360
ctgcggccgg	gcgactgcga	agtttgtatt	tcttatctgg	gaagatttta	ccaggacctc	420
aaagacagag	atgtcacatt	ctcaccagcc	actattgaaa	acgaacttat	aaagttctgc	480
cgggaagcaa	gaggcaaaga	gaatcggttg	tgctactata	tcggggccac	agatgatgca	540
gccaccaaaa	tcatcaatga	ggtatcaaag	cctctggccc	accacatccc	tgtggagaag	600
atctgtgaga	agcttaagaa	gaaggacagc	cagatatgtg	agcttaagta	tgacaagcag	660
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aatgaactga	tgccctaaata	tgcccccaag	gcagccagtg	caccgaccga	tttgtagtct	840
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cctttttgta	atatttttt	taagtgggct	cctgacaata	ctgtatcaga	tgtgaagcct	960
ggagctttcc	tgatgatgct	ggccctacag	tacccccatg	aggggattcc	cttccttctg	1020
ttgctggtgt	actctaggac	ttcaaagtgt	gtctgggatt	tttttattaa	agaaaaaaaa	1080
tttctagctg	tcaaaaaaaaa	aaa				1103

Homo sapiens interleukin 11 receptor, alpha, transcript variant 1, mRNA  
(cDNA clone MGC:2146 IMAGE:3502059), complete cds.

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gggggctgta gctggtgaga ggaagtcccta gaggctatgg acactctgct gctgggatca      60
ccgagatgag cagcagctgc tcagggctga gcagggtcct ggtggccgtg gctacagccc      120
tggtgtctgc ctctcccccc tgcccccagg cctggggccc ccagggggtc cagtatgggc      180
agccaggcag gtccgtgaag ctgtgttgtc ctggagtga tggccggggac ccagtgtcct      240
ggtttcggga tggggagcca aagctgctcc agggacctga ctctgggcta gggcatgaac      300
tggtcctggc ccaggcagac agcactgatg agggcaccta catctgccag accctggatg      360
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tagatgctgg cacctggagc acctggagcc cggaggcctg gggaactccg agcactggga      1020
ccataccaaa ggagatabca gcatggggcc agctacacac gcagccagag gtggagcctc      1080
aggtggacag ccctgctcct ccaaggccct ccctccaacc acacctcgg ctacttgatc      1140
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atctgtgtcc atgtgtgacc atgtgtctgt gaggcaggga acatgtattc tctgcatgca      1620
tgtatgtagg tgcttgggga gtgtgtgtgg gtcttggct cttggccttt ccccttgacg      1680
gggtgtgca ggtgtgaata aagagaataa ggaagtctt ggaaaaaaaa aaaaaaaaaa      1740
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacctc gggg                                1783

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Homo sapiens mRNA; cDNA DKFZp56402071 (from clone DKFZp56402071); complete cds

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gggggcagca ggccaagggg gagtgcgag cgtggacctg ggacgggtct gggcggtct      60
cggtggttgg caggggttcg cacacccatt caagcggcag gacgcacttg tcttagcagt      120
tctcgctgac cgcgctagct gcggttcta cgctcggca ctctgagttc atcagcaaac      180
gccctggcgt ctgtcctcac catgcctagc ctttgggacc gcttctcgtc gtcgtccacc      240
tctcttgcgc cctcgtcctt gcccgaact cccaccccag atcggccgcc gcgtcagcc      300
tgggggtcgg cgaccgggga ggagggttt gaccgtcca cgagcctgga gagctcggac      360
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gccaacctga tgcagctgct gcaggagagc ctggcccagg cgcggctggg ctctcgacgc      540
cctgcgcgcc tgctgatgcc tagccagttg gtaagccagg tgggcaaaga actactgcgc      600
ctggcctaca gcgagccgtg cggcctgcgg ggggcgctgc tggacgtctg cgtggagcag      660
ggcaagagct gccacagcgt gggccagctg gcactcgacc ccagcctggg gccaccttc      720
cagctgacct tcgtgctgcg cctggactca cgactctggt ccaagatcca ggggtgttt      780
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ttccgagtcg tcaagaagaa gctgtacagc tcggaacagc tgccattga ggagtgttga      900
acttcaacct gagggggccg acagtgcctt ccaagacaga gacgactgaa cttttggggt      960
ggagactaga ggcaggagct gagggactga ttccagtgg tggaaaactg aggcagccac      1020
ctaaagtggg ggtgggggaa tagtgtttcc caggaaagctc attgagttgt gtgcgggtgg      1080
ctgtgcattg gggacacata cccctcagta ctgtagcatg aaacaaaggc ttaggggcca      1140

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acaaggcttc	cagctggatg	tgtgtgtagc	atgtacctta	ttatTTTTgt	tactgacagt	1200
taacagtggg	gtgacatcca	gagagcagct	gggctgctcc	cgccccagcc	tggcccaggg	1260
tgaaggaaga	ggcacgtgct	cctcagagca	gccggaggga	agggggaggt	cggaggtcgt	1320
ggagggtggg	tgtgtatctt	actggtctga	agggaccaag	tgtgtttgtt	gtttgttttg	1380
tatcttggtt	ttctgatcgg	agcatcacta	ctgacctgtt	gtaggcagct	atcttacaga	1440
cgcataaatg	taagagtagg	aaggggtggg	tgtcagggat	cacttgggat	ctttgacact	1500
tgaaaaatta	cacctggcag	ctgcgtttaa	gccttcccc	atcgtgtact	gcagagttga	1560
gctggcaggg	gaggggctga	gaggggtggg	gctggaaccc	cttcccggga	ggagtgccat	1620
ctgggtcttc	catctagaac	tgtttacatg	aagataagat	actcactgtt	catgaataca	1680
cttgatgttc	aagtattaag	acctatgcaa	tatTTTTtac	ttttctaata	aacatgtttg	1740
ttaaaacaaa	aaaaaaaaa	aaaaaaaaa				

## Homo sapiens collagen alpha 3 type IX (COL9A3) mRNA, complete cds.

atggccgggc	cgcgcgctg	cgcgcgctc	ctgctcctgc	tcctcctcgg	gcagcttctg	60
gcggccgcgc	gggcgagag	agtgggactc	cccggccccc	ccggccccc	agggcgccct	120
gggaagcccg	gccaggacgg	cattgacgga	gaagctggtc	ctccaggtct	gcctggtccc	180
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ccgggacctc	ctggactccc	cggcctccct	ggtccccag	gacctcccg	acccctgga	480
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ggtccccag	ggccccctgg	aatgccaggg	ttcaagggac	ccactggcta	caaggcgag	600
cagggggaag	tcggcaagga	cgcgagaaag	ggtgaccctg	gccccctgg	gcccgcgggc	660
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gctggtcgca	acggtgctcc	gggagaagaag	ggccccaacg	ggctgccggg	cctccctgga	1020
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tgagagaagg	tagggtgtgt	atatataaaa	ggttgtgtac	aactccacga	ggtgaaaaat	2340
attcagtaac	ttgtttgcat	agcattttgt	taaagactat	gatctcatcc	caataaaaatg	2400
atatattaaa	tcttcagatt	aatgactggc	tacagagtaa	caaaaaataa	acaatttaaat	2460
gtacagtaaa	ttctctccca					2480

Homo sapiens cDNA FLJ20113 fis, clone COL05437.

aattggcaac	ccggaagcgg	tcggtagtgc	ggcgtgttt	aaagatggcg	goggaggaac	60
ctcagcagca	gaagcaggag	ccgctgggca	gcgactccga	aggtgttaac	tgtctggcct	120
atgatgaagc	catcatggct	cagcaggacc	gaattcagca	agagattgct	gtgcagaacc	180
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atgacagcaa	ggagttagcag	cggttcaagg	ctgtgtctgc	caagagcaag	gaagacctgg	420
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ccctcagcgt	gtccatccag	gtggagtaca	tggaccgagg	cgagggcggc	accaccaatc	780
cgcacatctt	ccctgagggc	tccgagccca	aggtctacct	tctctaccgg	cctggacact	840
acgatatcct	ctacaaatag	ggctggctcc	agcccgtctc	tgcctctgtg	ccccctctg	900
ccaggcgcta	gacatgtaca	gaggtttttc	tgtggttgta	aatggtccta	tttcaccccc	960
ttcttcctgt	cacatgaccc	cccccatgt	tttattaaag	gggtgctgg	tggtagccg	1020
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ctgtgcctgc	cttgcacccc	ctctgcttgg	gccacggtgt	ctctgcattg	cctgcctttt	1620
tgccttcacc	tcttttcttc	cccgcacct	gcacattcgg	ggtctcagcc	cccaggctgt	1680
gagctccttg	ggggcaggcc	ctcaataaat	gtgaactgct	gctgccgcca	aaaaaaaaa	1740
aaaaaaa						1747

01763146F1 NIH\_MGC\_20 Homo sapiens cDNA clone IMAGE:4026010 5', mRNA  
sequence.

aattgatatt	ttttgctgct	tcctcggccc	aggagaaagc	atgtcaggac	agagctgttg	60
gattggcttt	gatagaggaa	tggggatgat	gtaagtttac	agtattcctg	gggtttaatt	120
gttgtgcagt	ttcatagatg	ggtcaggagg	tggacaagtg	gggccagaga	tgatggcagt	180
ccagcagcaa	ctccctgtgc	tcccttctct	ttgggcagag	attctatatt	tgacatttgc	240
acaagacagg	tagggaaagg	ggacttgtgg	tagtggacca	tacctgggga	ccaaaagaga	300
ccactgtaa	ttgatgcatt	gtggccctg	atcttccctg	tctcacactt	cttttctccc	360
atcccggttg	caatctcact	cagacatcac	agtaccaccc	caggggtggc	agtagacaac	420
aaccagaaa	tttagacagg	gatctcttac	ctttggaaaa	taggggttag	gcatgaaggt	480
ggttgtgatt	aagaagatgg	tttgttatta	aatagcatta	aactggaatt	ga	532

Human plasma serine protease (protein C) inhibitor mRNA, complete cds.

aattccggca	gagctccgtt	tcctcataga	acaaagaaca	tccaccatgc	agctcttcct	60
cctcttgtgc	ctggtgcttc	tcagccctca	gggggcctcc	cttcaccgcc	accacccccg	120
ggagatgaag	aagagagtcg	aggacctcca	tgtaggtgcc	acggtggccc	ccagcagcag	180
aagggaacttt	acctttgacc	tctacagggc	cttggcttcc	gctgccccca	gccagaacat	240
cttcttctcc	cctgtgagca	tctccatgag	cctggccatg	ctctccctgg	gggctgggtc	300
cagcacaaaag	atgcagatcc	tggagggcct	gggcctcaac	ctccagaaaa	gctcagagaa	360
ggagctgcac	agaggctttc	agcagctcct	tcaggaactc	aaccagccca	gagatggctt	420
ccagctgagc	ctcggcaatg	cccttttcac	cgacctggtg	gtagacctgc	aggacacctt	480
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gacctcggag	actgtggtgc	gggtacccat	gatgagccgc	gaggatcagt	atcactacct	780
cctggaccgg	aacctctcct	gcagggtggt	gggggtcccc	taccaaggca	atgccacggc	840
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aacgctgagg	aagtggctta	agatgttcaa	aaagaggcag	ctcgagcttt	accttcccaa	960
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ttaatgattg	attatatcat	tttgtggata	tagttataat	ctgatgggcc	tggctgggag	2040
tggaagaagg	gaagcctttt	gcaaatagta	gagtgtcagt	tgcaggtgcc	aatgactaac	2100
tttttg						2106

Homo sapiens DKFZP586A0522 protein, mRNA (cDNA clone MGC:5320  
IMAGE:2900478), complete cds.

tgagcaatgg	agcttaccat	ctttatcctg	agactggcca	tttacatcct	gacatttccc	60
ttgtacctgc	tgaactttct	gggcttgtgg	agctggatat	gcaaaaaatg	gttcccctac	120
ttcttgggtga	ggttcactgt	gatatacaac	gaacagatgg	caagcaagaa	gcgggagctc	180
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taaatcactc	caaagaagac	tttaaaaagg	gagcagtga	aaggtcttaa	taatttattg	1920
attgaattaa	gaaatactag	ctaattaaga	atctgagctc	aaacagcaca	gattttttct	1980
ttctgctttt	aaattgtgtt	ttaaaaaaag	agacaggggg	ctgggcgtgg	tggctcgcgc	2040
ctgtgatcct	agcacttttg	gaggccgagg	cgggtggatc	acgaggtagg	agttaaagac	2100
cagcctggcc	aacatggcaa	aaccctacta	aagatacaaa	aaaaaaaaaa	aa	2152



## Homo sapiens calcium binding protein 1 (calbrain), mRNA (cDNA clone

ggtgggtgcc	tgtagaccaa	gctgctcagg	aggetgagge	aggagaatca	cttgaatccg	60
ggagtcagag	gttgcagtga	gccaagatca	cgccactgca	ctccagcctg	ggcgacagag	120
tgcactagcc	acacacaaaa	aaggaggggg	catgtttcca	ctttgcccc	gtccccacct	180
ctcacacctt	gcctgcttcg	tttatgtcag	caatggcacc	tgcattgtgca	acctctggtc	240
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gctctgagtg	aacacttccc	attggtgaga	atagaagccc	cccgtgccc	ctgtctcttc	480
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ctcgctcag	ccctgttatc	tcagaaccaa	taaaaatatt	tccaagagca	aaaaaaaaa	1860
aaaaaaaaa						1868

## Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)

gtgactccat	gtctattacc	cagggttag	gcaggagaca	gatgggaaga	ctgcagggtgg	60
ggctcccca	aagccacaca	gcagggtggg	gaccagatgg	gtctcccatg	tgaagcactc	120
ttggctgtgt	tattgaaaag	aatcccgggg	ttcatgaatt	tggagagcgg	agctttgttt	180
cttaagaagc	ggatcacaac	ctgaagacca	gaagcatggc	ttcttgccaa	aaaacaaaag	240
caggcacttt	aagggagggg	agggcaaggc	aggaatttat	gctgagtggg	ttagctaagt	300
gcacgtattc	aactggttat	agaaggagct	atgaatattc	atggacaggt	ggacacatgg	360
acacacgcat	gtgtgacaag	caaacactca	tttttttttt	tttttgagac	ggagctctgc	420
tctgtcacc	aggctggagt	gcagtggcac	gatctcagct	cactgcaacc	tctgcgtcct	480
gggttcaagc	cattctctctg	cctcagcctc	tccagtagct	gggattacag	gcattgcacca	540
ccacgcccag	ctaatttttg	tggttttctg	agagacgggg	tttcaccatg	ttggccaggc	600
tggtctcgat	ttcctgacct	cgtgatccgc	cctccttggc	ctcccaaagt	gctgggatta	660
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tggatgatca	aagcagcaaa	aagaagacgc	aagagaagag	ccacacagtc	tcttttgga	16620
gctgcaccag	tgacctgctt	tcgtctgagt	agcacccta	cctgcaagga	gattggggcaa	16680
gtagatttt						16689

Homo sapiens negative growth-regulatory protein MyD118 (MYD118) mRNA,  
complete cds.

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ccgcatccac tgtggattat aattgcaaca tgacgctgga agagctcgtg gcgtgcgaca      60
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agcgccagga tcgcctcaca gtgggggtgt acgagtcggc caagttgatg aatgtggacc      180
cagacagcgt ggtcctctgc ctcttgcca ttgaogagga ggaggaggat gacatcgccc      240
tgcaaatcca cttcacgctc atccagtcc tctgctgtga caacgacatc aacatcgtgc      300
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aaccccccca aaacaaccca acccacgagg accatcgagg gcaggtcgtt ggagactgaa      660
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tccagactgt ccactcgggg gtggagtgag actgactgca agccccacco tccttgagac      780
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aactcccagt ttgcgaatta ataagagaca atctatattt ttacttgcac ttgttattcg      960
aaccactgag agcgagatgg gaagcataga tatctatatt tttatttcta ctatgagggc     1020
cttctaataa atttctaaag cctcaaaaaa                                1050

```

yz12f12.s1 Soares\_multiple\_sclerosis\_2NbHMSP Homo sapiens cDNA clone  
IMAGE:282863 3', mRNA sequence.

tggagaagga	aggacagttt	ttcttcctcc	aagagtacca	atttgaccac	tcccactaac	60
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tgtcccagaa	gggccatttg	gttcccaaag	cacactcaag	gttttggtgt	tgctttcatt	360
ttctaagccc	ctgaatttgc	aagtaaagaa	tactgacta	acagaatttt	ggcacaatga	420
ctggtttctt	tcctcaatg	aagatgncca	ggctctgggtg	tgaggagcac	ctggcctcaa	480
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gaatgatctg	tgctgggana	cctccctaan	ggatgaagg			579



Homo sapiens synaptogyrin 3, mRNA (cDNA clone MGC:20003 IMAGE:4334996), complete cds.

cagcggcctc	gggcggggcc	ggccggacgg	acagggcgac	agaaggcgcc	agggggcgcg	60
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gtatatatca	ctctctccct	ctcctgaaag	accagagatt	gtgtattttc	agtgtcccat	1920
gttccgactg	caccttcttt	acaataaaga	ctgtaactga	gctgactgtg	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaa					1996

Human 14 kd lectin mRNA, complete cds.

cttctgacag	ctggtgcgcc	tgcccgggaa	catcctoctg	gactcaatca	tggcttgtgg	60
tctggtcgcc	agcaacctga	atctcaaacc	tgagagtgcc	cttcgagtgcc	gaggcgaggt	120
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cggtgacttc	aagatcaaat	gtgtggcctt	tgactgaaat	cagccagccc	atggcccca	480
ataaaggcag	ctgcctctgc	tcccctg				507

## Homo sapiens monocarboxylate transporter 2 (MCT2) mRNA, complete cds.

cgggcgcca	ccctgcgcca	gagaccagat	aaagatcaat	cttaagatgt	gatactttcc	60
tgtgaaacct	gaaacaaggt	gatctgggga	accaaagact	ctgggactct	tggtgccaac	120
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ttcagcaaat	attccacact	acctacagt	aaatagcatg	gatttcattc	attatgctgg	360
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ctaaaaataa	gactggcaaa	acagaagatg	attcaagccc	aaagaaaatc	aaaacgaaga	840
aatcaacttg	ggaaaaagtt	aataagtatt	tagattttct	cctttttaag	catagaggat	900
ttctgatata	tctgtctgga	aatgtcatta	tgttcctagg	tttttttgcc	cccattatat	960
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tagaaagaat	ccatgctata	ggtttatttc	catacctgac	tctgggtgtg	gtgggttaaaa	1860
tactaatttt	aaagtcttcc	agtgactttc	ggccttgggt	atatgga		1907

H.sapiens mRNA for gonadotropin-releasing hormone receptor, splice variant.

atggcaaca	gtgcctctcc	tgaacagaat	caaaatcact	gttcagccat	caacaacagc	60
atcccactga	tgcaaggcaa	cctccccact	ctgacctgtg	ctggaaagat	ccgagtgcg	120
gttactttct	tcctttttct	gctctctgcg	acctttaatg	cttctttctt	gttgaaactt	180
cagaagtgga	cacagaagaa	agagaaagg	aaaaagctct	caagaatgaa	gctgctctta	240
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tcttttcac	atgctgatct	gcaatgcaaa	aatcatcttc	accctgacac	gggtccttca	600
tcaggacccc	cacgaactac	aactgaatca	gtccaagaac	aatataccaa	gagcacggct	660
gaagactcta	aaaatgacgg	ttgcatttgc	cacttcattt	actgtctgct	ggactcccta	720
ctatgtccta	ggaatttgg	attggtttga	tcttgaaatg	ttaaacaggt	tgtcagaccc	780
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tggatatttt	tctctgtga					859

Homo sapiens midline 1 (MID1) mRNA, complete cds.

cttttttttg	cggggccgca	tgaatccggc	cagccccacc	tgcttgaagg	acctacaggt	60
ttgtctcttc	cagatcagaa	ctgaggaaca	aaaaccccc	tcctgggaaa	aatggggaag	120
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aaacatgagg	cagatagctg	atcagcttcc	ttgggttttg	ctgatgacac	aagagagctt	300
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gaggaccctc	ttctactgcc	ctgcgcacac	agcctctgct	tcaactgogc	ccaccgcac	420
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agcgagaccc	gtcgggagcg	ggcctttgac	gccaacacca	tgacctccgc	cgagaagggtc	660
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Homo sapiens IL-1 receptor accessory protein mRNA, complete cds.

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Homo sapiens clone FLB0708 mRNA sequence.

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